

# **TIMELINE ANALYSIS PROGRAM (TLA-1) FINAL REPORT—APPENDICES**

**K. H. Miller**

**April 1976**

**CASE FILE  
COPY**

Available to U.S. Government  
Agencies and their Contractors

Distribution of this report is provided in the  
interest of information exchange. Responsibility  
for the contents resides in the author or  
organization that prepared it.

**Prepared under contract NAS1-13741 by**

**Boeing Commercial Airplane Company  
P. O. Box 3707  
Seattle, Washington 98124**

**for  
Langley Research Center  
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

# BOEING COMMERCIAL AIRPLANE COMPANY

P.O. Box 3707  
Seattle, Washington 98124

A Division of The Boeing Company

June 1, 1976

## ERRATA

NASA CR-144942	TIMELINE ANALYSIS PROGRAM (TLA-1) FINAL REPORT
	and
NASA CR-144943	TIMELINE ANALYSIS PROGRAM (TLA-1) FINAL REPORT APPENDICES

The statement on the covers of these documents that state

"Available to US Government Agencies and Their Contractors"

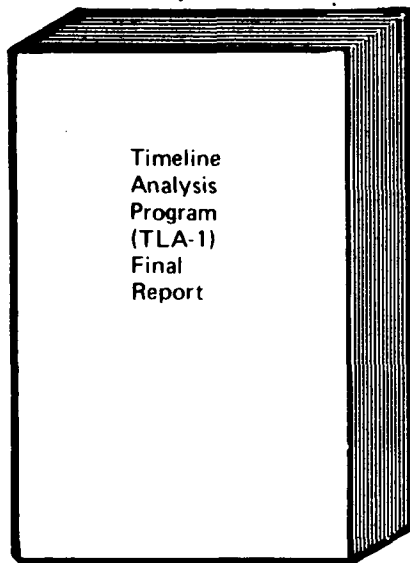
should be deleted. These documents are available to anyone without restriction.

K. H. Miller

**BOEING**

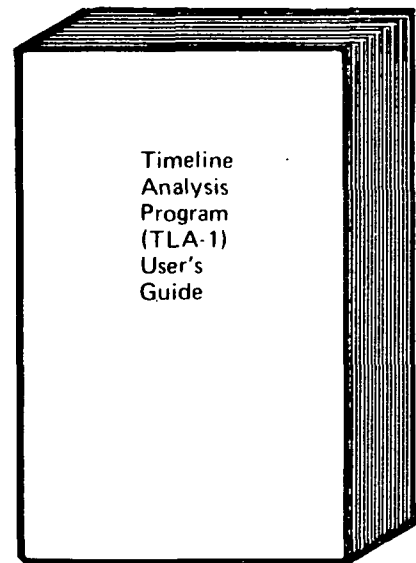
# TIME LINE ANALYSIS PROGRAM (TLA-1)

## DOCUMENTATION FAMILY



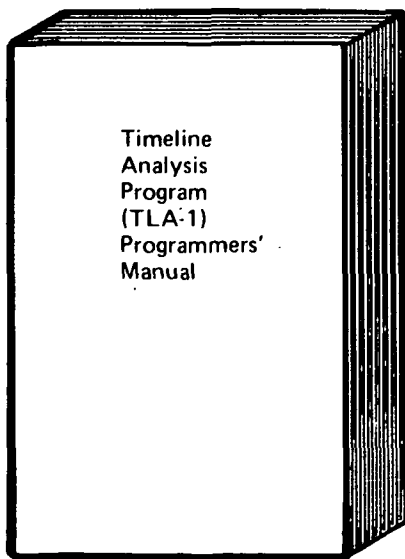
Timeline  
Analysis  
Program  
(TLA-1)  
Final  
Report

Boeing document no.  
D6-42377-5  
NASA document no.  
NASA CR-144942



Timeline  
Analysis  
Program  
(TLA-1)  
User's  
Guide

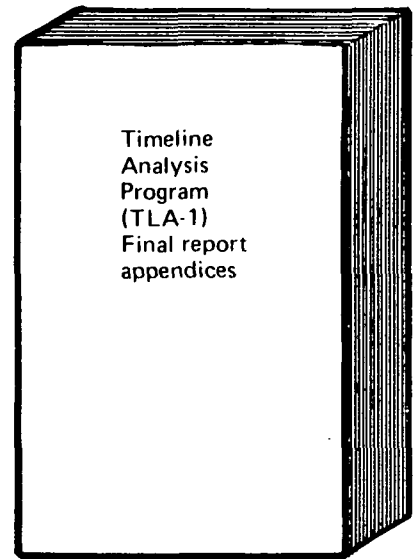
Boeing document no.  
D6-42377-3



Timeline  
Analysis  
Program  
(TLA-1)  
Programmers'  
Manual

Boeing document no.  
D6-42377-4  
(Restricted  
distribution)

This document



Timeline  
Analysis  
Program  
(TLA-1)  
Final report  
appendices

Boeing document no.  
D6-42377- 6  
NASA document no.  
NASA CR-144943

1. Report No. <b>NASA CR-144943</b>		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle <b>TIMELINE ANALYSIS PROGRAM (TLA-1) FINAL REPORT—APPENDICES</b>				5. Report Date <b>APRIL 1976</b>	
				6. Performing Organization Code <b>B-8180</b>	
7. Author(s) <b>K. H. Miller</b>				8. Performing Organization Report No. <b>D6-42377-6</b>	
				10. Work Unit No.	
9. Performing Organization Name and Address <b>Boeing Commercial Airplane Company P. O. Box 3707 Seattle, Washington 98124</b>				11. Contract or Grant No. <b>NAS1-13741</b>	
				13. Type of Report and Period Covered <b>Final Report</b>	
12. Sponsoring Agency Name and Address <b>NASA-Langley Research Center Hampton, Virginia 23665</b>				14. Sponsoring Agency Code	
15. Supplementary Notes					
16. Abstract  This document contains the appendices for the Timeline Analysis Program (TLA-1) final report. The appendices contain the Atlanta terminal area scenarios; the task catalog and the control and display configurations for the forward and aft flight decks of the NASA 515; and the event/procedure, phase, mission, and subsystem catalogs.					
17. Key Words (Suggested by Author(s)) <b>Flight deck, Crew Systems, Workload Analysis, Terminal Controlled Vehicle Program, Computer program, Task analysis, Timeline, Model 737, Atlanta Airport Terminal Area, NASA 515, Controls and Displays</b>				18. Distribution Statement	
19. Security Classif. (of this report) <b>Unclassified</b>		20. Security Classif. (of this page) <b>Unclassified</b>		21. No. of Pages <b>350</b>	
				22. Price*	

\*For sale by the National Technical Information Service, Springfield, Virginia 22151



## CONTENTS

	Page
Appendix One Scenarios 1A and 1B . . . . .	1
Appendix Two Scenarios 2A and 2B . . . . .	35
Appendix Three Scenarios 3A and 3B . . . . .	45
Appendix Four Scenarios 4A and 4B . . . . .	75
Appendix Five Task Catalog for the NASA 515 . . . . .	85
Appendix Six NASA 515 Forward Flight Deck Instrumentation Configurations .	263
Appendix Seven NASA 515 Aft Flight Deck Instrumentation Configurations . .	279
Appendix Eight Event/Procedure Catalog . . . . .	295
Appendix Nine Phase Catalog . . . . .	335
Appendix Ten Mission Catalog . . . . .	345
Appendix Eleven Subsystem Catalog . . . . .	349

**APPENDIX ONE**  
**SCENARIOS 1A AND 1B**

## **SCENARIOS 1A & 1B\***

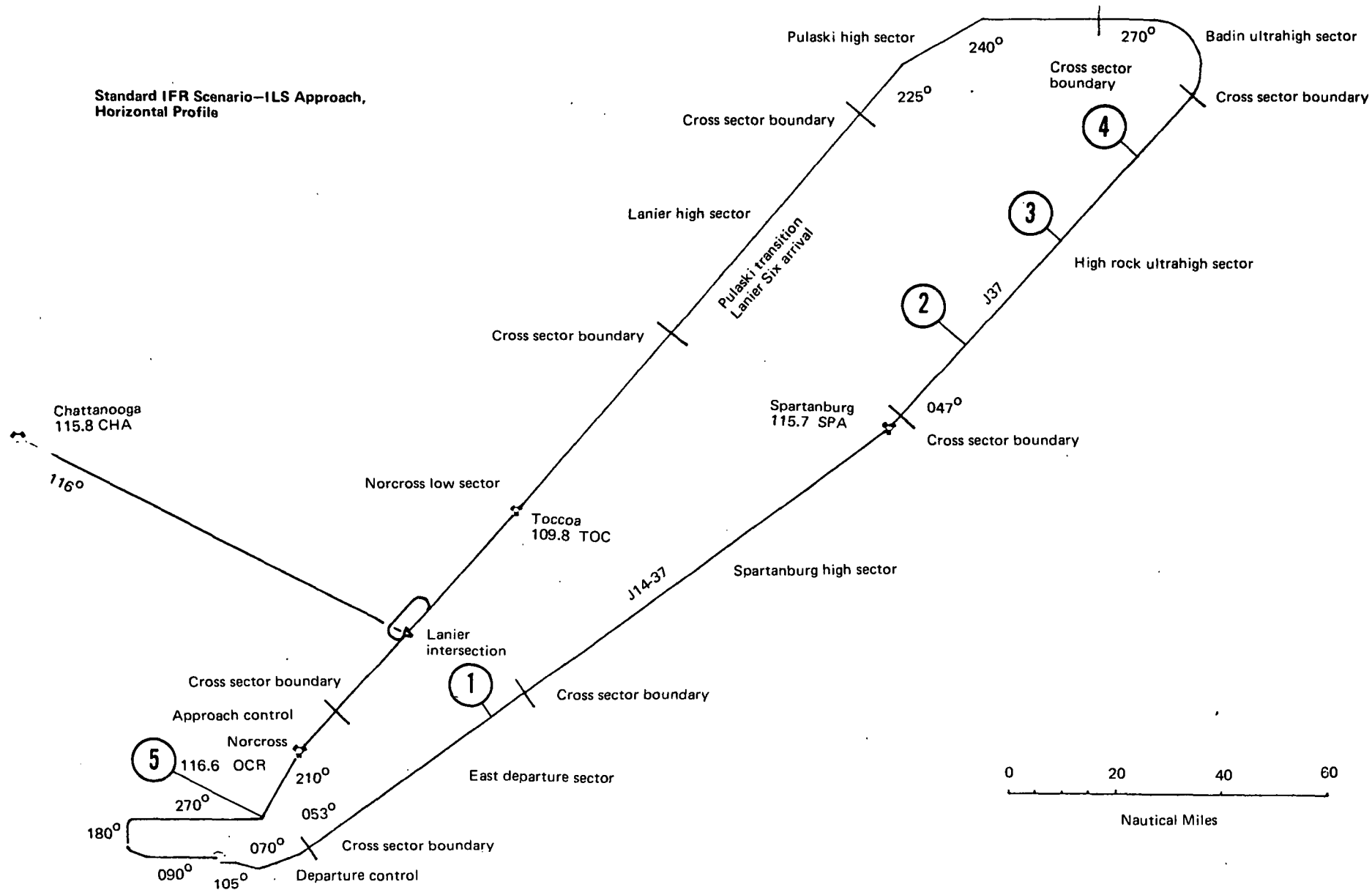
IFR, flight,—Hartsfield Atlanta International Airport  
to Washington National Airport with unscheduled return to  
Atlanta.

ILS approach to Hartsfield Atlanta International Airport.

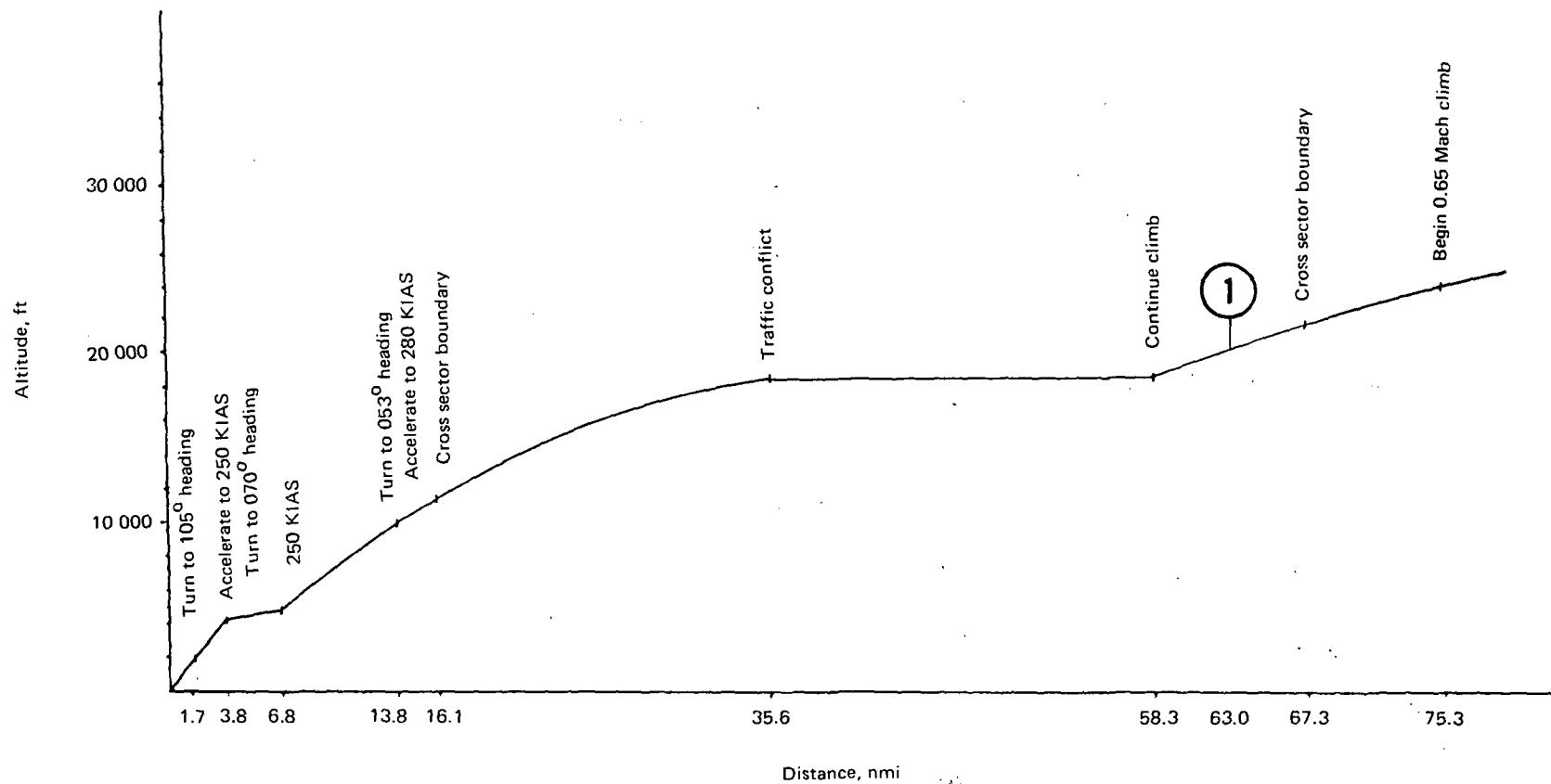
---

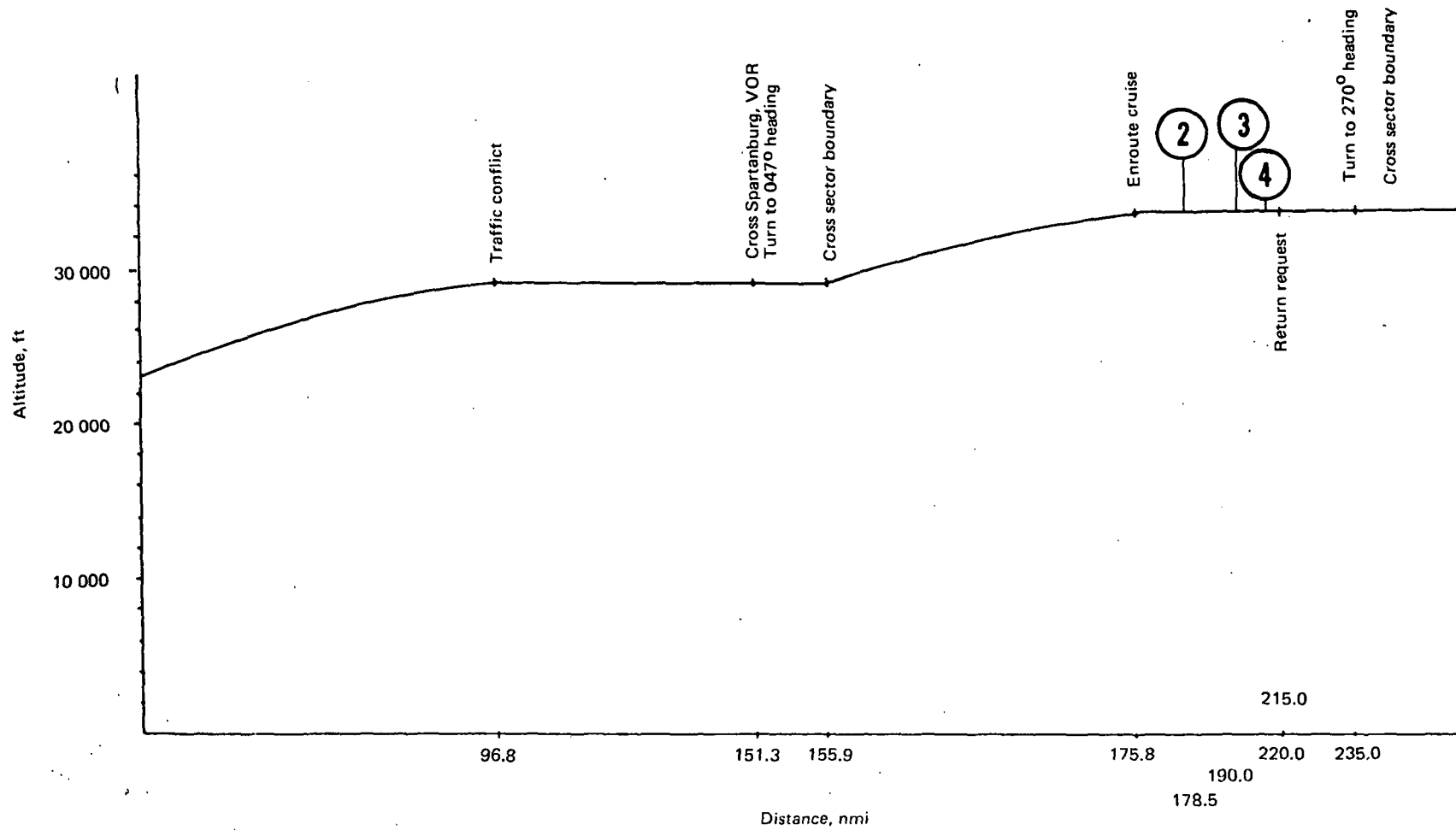
\*Scenario 1B is identical to 1A except for the addition  
of malfunction events.

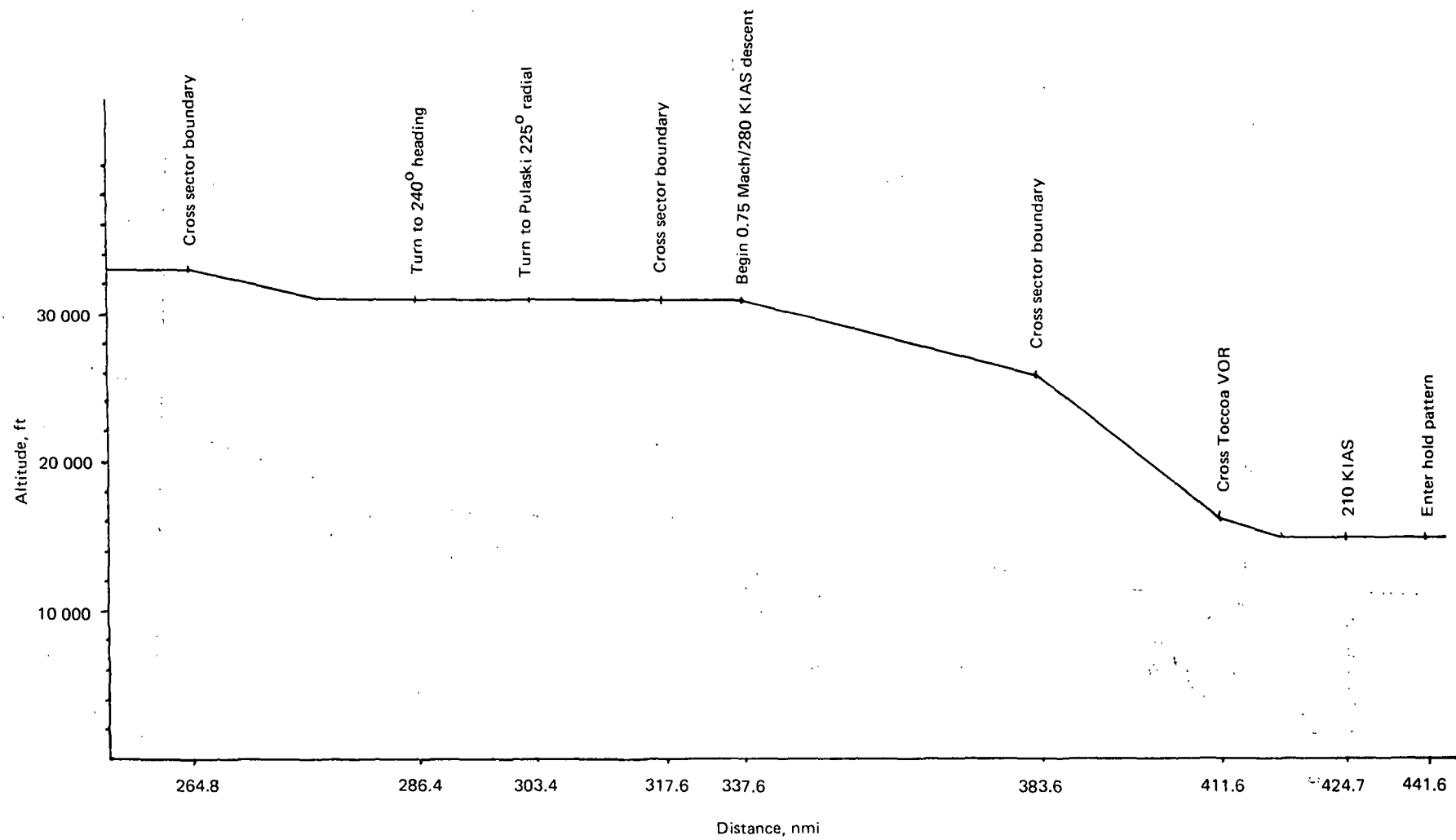
**Standard IFR Scenario—ILS Approach,  
Horizontal Profile**

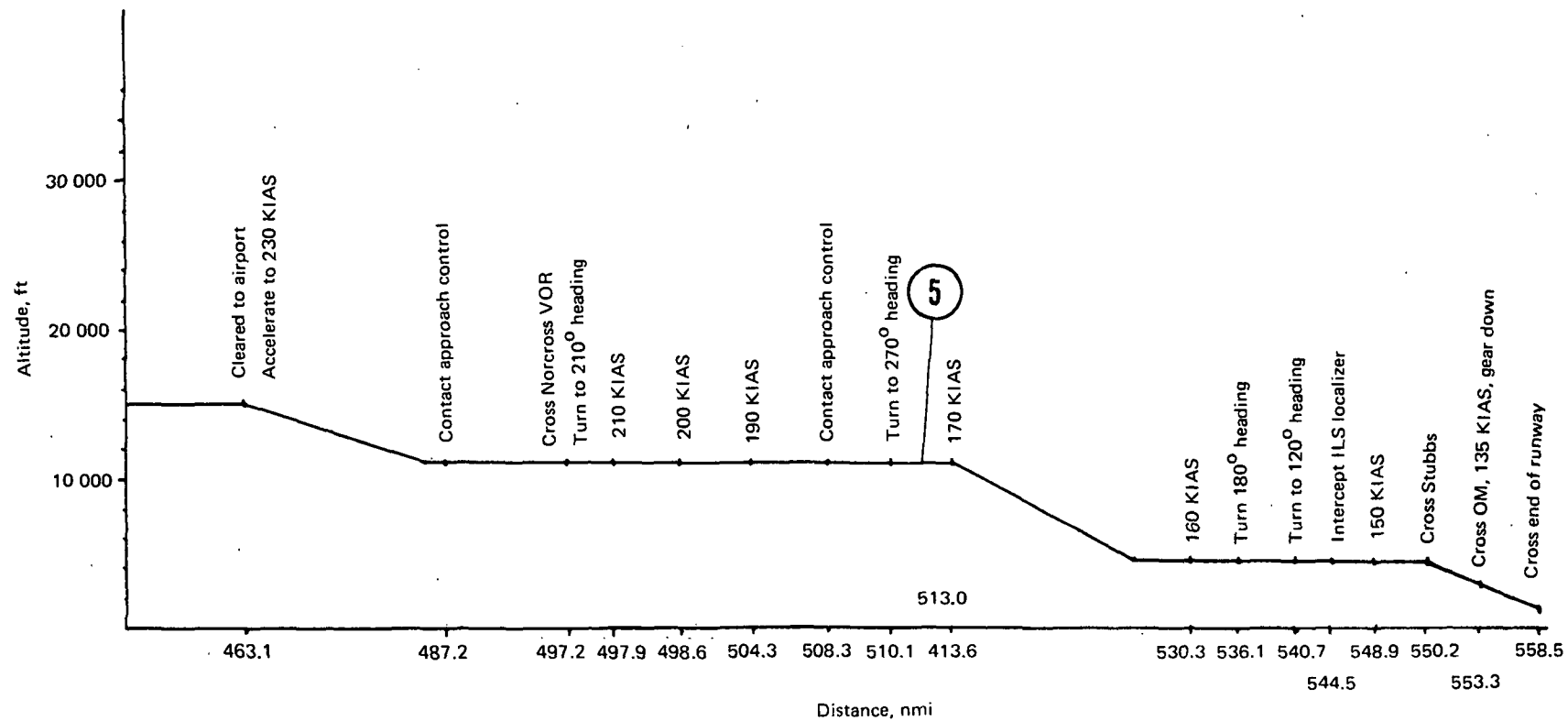


Standard IFR Scenario—ILS Approach,  
Vertical Profile











## FLIGHT SCENARIO

TIME	DIST.	ALT.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
min:sec	n.m.	ft.								
			Tune Clearance Delivery	121.65						
			Tune Ground Control		121.9					
			Tune Atlanta Tower			119.5				
			Tune Departure ATIS				111.0			
			Select Clearance Delivery							
<p><u>Pilot:</u> Atlanta Clearance Delivery, this is NASA 515 at Gate X, IFR to Washington National. (Call up initiated not more than ten minutes before ready to taxi.)</p>										
<p><u>Clearance Delivery:</u> ATC clears NASA 515 as filed, climb and maintain five thousand feet, noise abatement procedures are in effect, contact Atlanta departure on one two five point seven, squawk two two one three, over.</p>										
<p><u>Pilot:</u> NASA 515 roger, cleared as filed, maintain five thousand, noise abatement procedures in effect, contact Atlanta departure one two five point seven, squawk two two one three, over.</p>										

TIME	DIST.	ALT.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
	n.m.	ft.								

Clearance Delivery: NASA 515, Clearance correct, contact ground control on one two one point niner when ready to taxi.

Pilot: Roger.

Set Transponder code.

Select Departure ATIS: Information Kilo; one six one zero observation, three thousand scattered, ceiling five thousand broken, visibility two three, temperature five niner, wind one one five degrees at seven gusting to one six, altimeter two niner eight six, landings runways zero eight, niner right, departures runways zero eight, niner left. Noise abatement procedures are in effect. Advise controller on initial contact you have information Kilo.

Set Altimeter 29.86

Tune Atlanta VOR

115.6

Tune Spartanburg VOR

115.7

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			Select Ground Control							
			<u>Pilot</u> : Atlanta ground, this is NASA 515 at Gate X, request permission to push back. We have information Kilo, over.							
			<u>Ground</u> : NASA 515, Atlanta ground, roger, clear to push back. Advise when ready to taxi, over.							
			<u>Pilot</u> : NASA 515, roger.							
			Pushback - Approximately 60-120 seconds.							
			Engine Start - Estimate 30-60 seconds in addition to pushback time.							
			<u>Pilot</u> : Atlanta ground, NASA 515 ready to taxi.							
			<u>Ground</u> : NASA 515, taxi to runway niner left via northeast-southwest taxiway. Hold short of runway zero eight, over.							
			<u>Pilot</u> : NASA 515, roger. Taxi runway niner left, hold short runway zero eight.							

TIME	DIST.	ALT.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
	n.m.	ft.								

Set Takeoff Flaps 5°.

Taxiing to runway 9L will involve straight apron segment of 1125 feet, right turn (90°) to 2000 foot segment of northeast-southwest taxiway. This takes aircraft to holding position for crossing runway 08 and should require 2 to 3 minutes taxi time. Holding at runway 08 could involve a departing or arriving aircraft using runway 08 which would require approximately 40 seconds to 90 seconds of wait time. Once cleared across runway 08:

Ground: NASA 515, cross runway zero eight, over.

Pilot: NASA 515, roger.

Taxiing will involve crossing congested 'X' intersection in middle of field. This intersection would be reached in 40 to 60 seconds after runway crossing. Possible traffic conflict could result here.

Ground: NASA 515 hold short of next intersection, cleared behind Eastern trijet, over.

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Pilot:</u> NASA 515, roger.							
			Once past intersection (90-120 seconds), ground control will contact aircraft.							
			<u>Ground:</u> NASA 515 contact Atlanta Tower on one one niner point five, over.							
			<u>Pilot:</u> NASA 515 roger, one one niner point five.							
			Select Atlanta Tower							
			(60° right turn must be executed at end of northeast-southwest taxiway onto parallel taxiway.)							
			In approximately 60 seconds:							
			<u>Pilot:</u> Atlanta Tower, this is NASA 515 ready for takeoff, runway nine left, over.							
			<u>Tower:</u> NASA 515, taxi into position and hold, over.							
			<u>Pilot:</u> NASA 515, roger.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			Within approximately 60 to 90 seconds:							
			<u>Tower</u> : NASA 515, cleared for immediate takeoff.							
			<u>Pilot</u> : 515, rolling.							
0:33:45	0	1000	Apply takeoff thrust.							
34:17 ± :05	0.6	1000	Rotation							
34:22 ± :02	0.8	1035	Flare to 35 feet							
			Speed: 145 kts.							
			Dist.: 5000 feet							
34:27 ± :05	1.1	1250	Retract gear.							
			<u>Tower</u> : NASA 515, contact Atlanta departure on one two five point seven, good-day.							
			<u>Pilot</u> : NASA 515, roger. Good-day.							
			Select Atlanta Departure Control.							
										.125.7

TIME	DIST.	ALT.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
	n.m.	ft.								
			<u>Pilot:</u> Atlanta departure, this is NASA 515, over.							
			<u>Departure:</u> NASA 515, Atlanta departure, roger.							
			Squawk ident.							
			Key ident.							
			<u>Departure:</u> NASA 515, radar contact. Say altitude, over.							
			<u>Pilot:</u> NASA 515, leaving one eight hundred.							
34:45 ± :05	1.7	1975	Cross Middle Marker, initiate turn to 105° heading (15° turn - 15° bank).							
34:52 ± :02	2.0	2300	On 105° heading.							
35:00 ± :02	2.3	2500	Retract flaps to 1° detent. Maintain $V_2 + 15$ . Set climb thrust.							
35:38 ± :02	3.8	4000	Reach 3000 feet above ground level. Begin acceleration to 250 KIAS. Maintain 500-1000 ft/min rate of climb.							
35:58 ± :05	5.0	4255	Select flaps 0°. Speed 190 KIAS.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Departure:</u> NASA 515, for vector to intercept Jay thirty seven, turn left heading zero seven zero, climb and maintain niner thousand, over.							
			<u>Pilot:</u> NASA 515, roger. Left heading zero seven zero, maintain niner thousand.							
36:03 ± :01	5.3	4320	Begin left turn to 070 heading (35° turn - 25° bank)							
36:17 ± :05	6.1	4500	Complete turn.							
36:27 ± :02	6.8	4625	Reach 250 KIAS.							
37:50 ± :05	11.8	8000	<u>Departure:</u> NASA 515, climb and maintain one two thousand, over.							
			<u>Pilot:</u> NASA 515, roger, maintain one two thousand.							
38:20 ± :05	13.8	10000	Reach 10000 feet. Begin turn to 053° heading and J37. (17° turn - 15° bank) (Monitoring Atlanta VOR)							
38:37 ± :05	15.1	10600	Turn complete. Begin acceleration to 280 KIAS.							



TIME	DIST.	ALT.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
	N.M.	FT.								
38:49 ± :05	16.1	11000	<p><u>Departure:</u> NASA 515, climb and maintain flight level two three zero, contact Atlanta center on one two three point niner five, over.</p> <p><u>Pilot:</u> 515, roger. Climb and maintain flight level two three zero, center one two three point niner five, good-day.</p> <p>Tune Atlanta Center, East Departure Sector</p> <p>Select Atlanta Center, East Departure Sector</p> <p><u>Pilot:</u> Atlanta Center, this is NASA 515 out of one one thousand for flight level two three zero, over.</p> <p><u>Center:</u> NASA 515, Atlanta Center, roger. Squawk ident.</p> <p>Key ident.</p> <p><u>Center:</u> NASA 515, radar contact. Report leaving flight level two one zero, over.</p> <p><u>Pilot:</u> NASA 515, roger. Report flight level two one zero.</p>							
							123.95			

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			Tune Company frequency	ARINC						
			Tune Emergency frequency		121.5					
41:25 ± :10	29.6	17000	<p><u>Center:</u> NASA 515, maintain flight level one eight zero. Traffic twelve o'clock, four miles, northeast bound, C-130 assigned flight level one niner zero, over.</p> <p><u>Pilot:</u> NASA 515, roger. Maintain flight level one eight zero. We have traffic in sight.</p> <p>Begin 500 ft/min. rate of climb.</p>							
42:25 ± :10	35.6	18000	<p>Level flight.</p> <p>Set Altimeter 29.92.</p>							
46:15 ± :20	58.3	18000	<p><u>Center:</u> NASA 515, clear of traffic, climb and maintain flight level two three zero. Report leaving flight level two one zero, over.</p> <p><u>Pilot:</u> NASA 515, roger. Maintain two three zero. Report leaving two one zero.</p>							
46:45	63		(Hyd. System B Overheat) *							

\* Scenarios 1B and 2B only.

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
47:43 ± :05	67.3	21000	<p><u>Pilot</u>: Atlanta Center, NASA 515, leaving flight level two one zero, over.</p> <p><u>Center</u>: NASA 515, roger. Climb and maintain flight level three one zero. Contact center on one three three point seven, over.</p> <p><u>Pilot</u>: 515, roger, maintain flight level three one zero, center on one three three point seven.</p> <p>Tune Atlanta Center, Spartanburg High Sector.</p>							
			Select Atlanta Center - Spartanburg High Sector.							
48:57 ± :15	75.3	23400	<p>Begin Mach 0.65 speed schedule.</p> <p><u>Pilot</u>: Atlanta Center, this is NASA 515 leaving flight level two three zero for flight level two niner zero, over.</p> <p><u>Center</u>: NASA 515, Atlanta center roger, squawk ident. Report leaving flight level two eight zero, over.</p>							

133.7

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Pilot:</u> NASA 515, roger. Report flight level two eight zero.							
51:18 ± :10	90.4	28000	<u>Pilot:</u> Atlanta center, NASA 515 leaving flight level two eight zero, over.  <u>Center:</u> NASA 515, roger. Climb and maintain flight level two nine zero, over.  <u>Pilot:</u> 515, roger, maintain flight level two nine zero. Begin 500 ft/min. rate of climb.  Tune Spartanburg VOR  Monitor Spartanburg VOR						115.7	
52:18 ± :10	96.8	29000	Level flight, accelerate to Long Range Cruise for this altitude.							
52:33 ± :05	98.6	29000	At Long Range Cruise (.67 Mach). Set thrust.  Tune Gordonsville VOR frequency					115.6		
1:00:31 ± :20	151.3	29000	Cross Spartanburg VOR  Begin left turn to 047 heading (10° turn - 5° bank).							
1:01:12 ± :05	155.9	29000	Turn complete.  <u>Center:</u> NASA 515, climb and maintain flight level three three zero. Contact center on one three four point five five, over.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Pilot:</u> NASA 515, roger. Maintain flight level three three zero, center one three four point five five.							
			Tune Atlanta Center - High Rock Ultra High Sector				134.55			
			Select Atlanta Center - High Rock Sector							
			<u>Pilot:</u> Atlanta Center, NASA 515 leaving flight level two niner zero for flight level three three zero, over.							
			<u>Center:</u> NASA 515, Atlanta center roger. Squawk ident.							
			Key ident.							
			<u>Center:</u> NASA 515, Report level at flight level three three zero, over.							
			<u>Pilot:</u> 515, roger.							
1:03:17 ± :10	169.3	32000	Reach 32000 feet. Begin 500 ft/min. rate of climb.							
1:04:17 ± :05	175.8	33000	Reach en route altitude. Begin acceleration to long range cruise speed.							
			<u>Pilot:</u> Atlanta center, this is NASA 515 level at flight level three three zero, over.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Center:</u> NASA 515, roger.							
1:04:45 ± :05	178.5		(Hyd. Sys. B Low Press.)*							
1:05:00 ± :05	180.3	33000	Reach long range cruise (.71 Mach) Set thrust.							
1:06:13	190.0		(Oil Filter Bypass)*							
1:08:28	215.0		(No. 2 Gen. Drive CSD Lo Oil Press.)*							
1:10:47 ± :30	220.0	33000	Pilot requests return to Atlanta. Controller coordinates with adjoining sector for return vectors.							
1:13:05 ± :10	235.0	33000	<u>Center:</u> NASA 515, for vector to intercept Lanier six arrival, Pulaski transition turn left heading two seven zero. Contact Atlanta center on one three five point three five, over.  <u>Pilot:</u> 515, roger. Left heading two seven zero, center one three five point three five.  Begin turn to 270° heading (137° turn - 15° bank). Tune Atlanta Center - Badin Ultra High Sector. Select Atlanta Center - Badin Sector Tune Pulaski VOR frequency. Monitor Pulaski VOR.							
							135.35			
								115.9		

\* Scenarios 1B and 2B Only.

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Pilot:</u> Atlanta center, this is NASA 515 level at flight level three three zero turning two seven zero heading, over. <u>Center:</u> NASA 515, roger. Squawk ident. Key ident. Center: "NASA 515, Radar contact"							
1:16:08 ± :20	254.8	33000	Turn complete.							
1:17:40 ± :10	264.8	33000	<u>Center:</u> NASA 515, descend and maintain flight level three one zero. Contact center on one three two point seven five, over.  <u>Pilot:</u> NASA 515, roger, maintain flight level three one zero, center one three two point seven five.  Begin descent. Set thrust to flight idle.  Tune Atlanta Center - Pulaski High Sector Select Atlanta Center - Pulaski Sector  <u>Pilot:</u> Atlanta Center, NASA 515 leaving flight level three three zero for flight level three one zero, over. <u>Center:</u> NASA 515, Atlanta Center roger, Squawk ident. Key ident. Center: "NASA 515, Radar contact"							
1:20:11 ± :15	280.8	31000	Level at 31000 feet.  Set thrust.							

132.75

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
1:21:03 ± :05	286.4	31000	<p><u>Center:</u> NASA 515, for vector to intercept Pulaski two two five radial, turn left heading two four zero, cleared to the Atlanta International Airport via the Lanier six arrival, Pulaski transition, over.</p> <p><u>Pilot:</u> 515, roger. Left heading two four zero for Pulaski two two five radial, Lanier six arrival.</p> <p>Monitor Pulaski VOR.</p> <p>Begin turn to 240° heading (30° turn - 15° bank)</p>							
1:21:42 ± :05	290.6	31000	Turn complete.							
1:23:40 ± :10	303.4	31000	Begin turn to Pulaski 225 radial.							
1:24:01 ± :05	305.6	31000	<p>Turn complete. (15° turn - 15° bank).</p> <p>Tune Toccoa - VOR frequency.</p>						109.8	
1:25:52 ± :10	317.6	31000	<p><u>Center:</u> NASA 515, contact center on one three two point eight, over.</p> <p><u>Pilot:</u> NASA 515, roger. One three two point eight.</p> <p>Tune Atlanta Center - Lanier High Sector</p>							132.8



TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			Select Atlanta Center - Lanier Sector							
			<u>Pilot:</u> Atlanta Center, NASA 515 level at flight level three one zero, over.							
			<u>Center:</u> NASA 515, Atlanta Center, roger. Squawk ident. Key ident.							
			<u>Center:</u> "NASA 515, Radar contact"							
1:28:52 ± :10	337.6	31000	<u>Center:</u> Descend and maintain flight level two four zero. Report leaving flight level two six zero, over.							
			<u>Pilot:</u> 515, roger. Maintain flight level two four zero. Report flight level two six zero.							
			Begin .75 Mach/280 KIAS descent. Set thrust at flight idle.							
1:35:46 ± :30	383.6	26000	Reach 26000 feet.							
			<u>Pilot:</u> Atlanta Center, NASA 515 leaving flight level two six zero, over.							
			<u>Center:</u> NASA 515, descend and maintain one one thousand, contact center on one two five point two, over.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Pilot:</u> NASA 515, roger, maintain one one thousand, center one two five point two.							
			Tune Atlanta Center - Norcross low sector.			125.2				
			Select Atlanta Center - Norcross sector.							
			<u>Pilot:</u> Atlanta Center, NASA 515 leaving flight level two five zero for one one thousand, over.							
			<u>Center:</u> NASA 515, Atlanta Center, roger. Squawk ident. Altimeter two niner point eight eight.							
1:40:34 ± :20	411.6	16500	Cross Toccoa VOR, set altimeter.							
			Tune Norcross VOR frequency.					116.6		
			<u>Center:</u> NASA 515, Maintain one five thousand, clearance limit is now Lanier intersection. Hold northwest of fix on Norcross zero four one radial, one and a half minute right turns, expect further clearance at one seven one five, over.							
			<u>Pilot:</u> 515, roger. Maintain one five thousand, hold northwest of Lanier intersection, right turns.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
1:40:49 ± :05	413.1	16000	Reach 16000 feet, begin 500 ft/min. rate of descent.							
1:41:49 ± :05	419.0	15000	Reach 15000 feet, begin deceleration to 210 KIAS. Tune Chattanooga VOR frequency.							115.8
1:42:58 ± :10	424.7	15000	Reach 210 KIAS. Set thrust.							
1:46:50 ± :20	441.6	15000	Enter holding pattern, begin right turn (180° turn - 25° bank).							
1:48:18 ± :15	447.7	15000	Complete turn. Heading 041.							
1:49:48 ± :05	453.9	15000	Complete outbound leg. Begin right turn (180° turn - 25° bank)							
1:51:16 ± :05	460.0	15000	Turn complete.							
1:52:01 ± :05	463.1	15000	<u>Center:</u> NASA 515, cleared to the Atlanta International Airport via last routing cleared, increase speed to two three zero knots, descend and maintain one one thousand, expect an ILS runway zero eight approach at Atlanta, over.  <u>Pilot:</u> 515, roger. Increase speed two three zero, maintain one one thousand.  Begin descent. Set thrust at flight idle.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
1:57:09 ± :05	486.1	11000	Reach 11000 feet at 230 KIAS.							
1:57:24 ± :05	487.2	11000	<p><u>Center</u>: NASA 515, contact approach control on one two six point niner, over.</p> <p><u>Pilot</u>: NASA 515, roger, approach on one two six point niner.</p> <p>Tune Atlanta Approach control.</p> <p>Tune Arrival ATIS.</p> <p>Select Arrival ATIS: Information Lima; one seven zero five observation, two five hundred scattered ceiling four thousand broken, visibility one six, temperature five niner, wind one one zero degrees at ten gusting to one seven, altimeter two niner eight four, simultaneous parallel approaches in operation on runways zero eight and niner right. Advise controller on initial contact you have information Lima.</p> <p>Set altimeter to 29.84, select approach control frequency.</p> <p><u>Pilot</u>: Atlanta Approach control, this is NASA 515, level one one thousand with information Lima, over.</p> <p><u>Approach</u>: NASA 515, roger, squawk ident.</p> <p>Key ident.</p>							

126.9

123.7

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
1:59:55 ± :10	497.2	11000	<p><u>Approach:</u> NASA 515, Turn left heading two one zero, reduce speed to two zero zero knots, over.</p> <p><u>Pilot:</u> 515, roger, left heading two one zero, slow to two zero zero.</p> <p>Cross Norcross VOR, begin turn (10° turn, 10° bank).</p> <p>Begin speed reduction to 200 knots. Adjust thrust.</p>							
2:00:05 ± :02	497.9	11000	Reach 210 KIAS							
2:00:09 ± :05	498.2	11000	<p>Turn complete, set 1<sup>0</sup> flap.</p> <p>Tune Runway 08 ILS - IATL</p> <p>Tune REG VOR</p>					109.9		111.8
2:00:15 ± :02	498.6	11000	Reach 200 KIAS. Set thrust.							
2:01:31 ± :05	503.6	11000	<u>Approach:</u> NASA 515, reduce speed to one niner zero knots, over.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Pilot:</u> 515 roger, one niner zero knots.							
			Begin deceleration. Adjust thrust.							
2:01:41 ± :05	504.3	11000	Reach 190 KIAS, set flaps 5°. Set thrust.							
2:02:45 ± :05	508.3	11000	<u>Approach:</u> NASA 515, contact approach control on one two seven point two five, over.							
			<u>Pilot:</u> 515 roger, one two seven point two five.							
			Tune approach control frequency.				127.25			
			Select frequency.							
			<u>Pilot:</u> Atlanta Approach Control, this is NASA 515 level one one thousand, over.							
			<u>Approach:</u> NASA 515, Atlanta approach roger. Squawk ident.							
			Key ident.							
2:03:13 ± :05	510.1	11000	<u>Approach:</u> NASA 515, turn right, heading two seven zero, reduce speed to one seven zero knots, descend and maintain four five hundred, over.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Pilot:</u> 515 roger, left heading two seven zero, slow to one seven zero, maintain four five hundred.							
			Begin turn to 270 heading.							
2:03:51 ± :05	512.4	11000	Turn complete, begin deceleration, Adjust thrust.							
2:04:00	513.0		(pilot incapacitation)*							
2:04:11 ± :05	513.6	11000	Reach 170 KIAS, set flaps 15°.							
			Begin descent to 4500 feet. Set thrust at flight idle.							
2:07:49 ± :20	525.8	4500	Reach 4500 feet. Set thrust for level flight.							
2:08:29 ± :05	527.8	4500	<u>Approach:</u> NASA 515, reduce speed to one six zero knots, over.							
			<u>Pilot:</u> 515 roger, one six zero knots.							
			Adjust thrust.							
2:08:39 ± :05	530.3	4500	Reach 160 KIAS. Set thrust.							
2:10:39 ± :10	536.1	4500	<u>Approach:</u> NASA 515, turn left heading one eight zero, over.							
			<u>Pilot:</u> 515 roger, left heading one eight zero.							
			Begin turn to 180 heading.							

\* Scenarios 1B and 2B Only.

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
2:11:33 ± :05	538.7	4500	Turn complete.							
			<p><u>Approach:</u> NASA 515, you are fourteen miles from the outer marker, turn left heading one two zero for vector to intercept final approach course. You are cleared for an ILS runway zero eight approach. Contact tower at the outer marker on one one niner point five, over.</p> <p><u>Pilot:</u> 515 roger, left heading one two zero, ILS runway zero eight approach, tower at outer marker on one one niner point five.</p> <p>Begin turn to 120° heading.</p> <p>Tune Atlanta Tower frequency.</p>				119.5			
2:12:40 ± :05	542.5	4500	Turn complete.							
2:13:31 ± :05	544.5	4500	<p>Begin turn to 90° heading (final approach heading).</p> <p>Capture ILS localizer.</p>							
2:13:50 ± :05	545.4	4500	Turn complete.							
2:14:52 ± :05	548.4	4500	<p><u>Approach:</u> NASA 515, reduce speed to one five zero knots, over.</p>							



TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Pilot:</u> 515 roger, one five zero knots. Adjust thrust.							
2:15:02 ± :05	548.9	4500	Reach 150 KIAS. Acquire glide slope. Set thrust.  Set flaps 25 <sup>0</sup> .							
			<u>Approach:</u> NASA 515, maintain current speed until crossing Stubbs, over.							
			<u>Pilot:</u> 515 roger.							
2:15:30 ± :05	550.2	3600	Cross Stubbs, begin speed reduction to 135 KIAS, set landing flaps 40 <sup>0</sup> . Adjust thrust.							
2:16:41 ± :05	553.3	2665	Cross Outer Marker, gear down.  Select Tower frequency.							
			<u>Pilot:</u> Atlanta Tower, this is NASA 515 over lakeside inbound for runway zero eight, over.							
			<u>Tower:</u> NASA 515, Atlanta Tower, roger. Cleared to land runway zero eight. Wind one one zero degrees at zero niner.							
			<u>Pilot:</u> 515 roger.							

TIME	DIST.	ALT.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
2:17:52	n.m.	ft.	Pass through 1500 feet.							
2:18:11 ± :10	558.0	1213	Cross Middle Marker, speed 130 KIAS.							
2:18:26 ± :02	558.5	1050	Cross end of runway.							
2:18:36 ± :02	558.8	1000	Touchdown, thrust reversers.							
2:19:01 ± :02			Thrust reversers off.							
2:19:11 ± :02			Speed brakes retract.							

Tower: NASA 515, exit runway next intersection, contact ground point niner when clear of runway, over.

Pilot: 515 roger, point niner when clear.

Tune Ground Control.

121.9

Select ground frequency.

Pilot: Atlanta ground, this is NASA 515, taxi to gate X, over.

Ground: NASA 515, Atlanta Ground, taxi to ramp via northeast-southwest taxiway, over.

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Pilot:</u> 515 roger.							
			Taxi straight ahead.							
2:20:51 ± :10			Turn left 90° to taxiway D							
2:22:08			Turn onto ramp.							
2:22:30			Taxi to gate.							
2:23:40			Arrive at gate, shut down engines.							

**APPENDIX TWO**  
**SCENARIOS 2A AND 2B**

## **SCENARIOS 2A AND 2B\***

IFR flight.—Hartsfield Atlanta International Airport  
to Washington National Airport with unscheduled return to  
Atlanta.

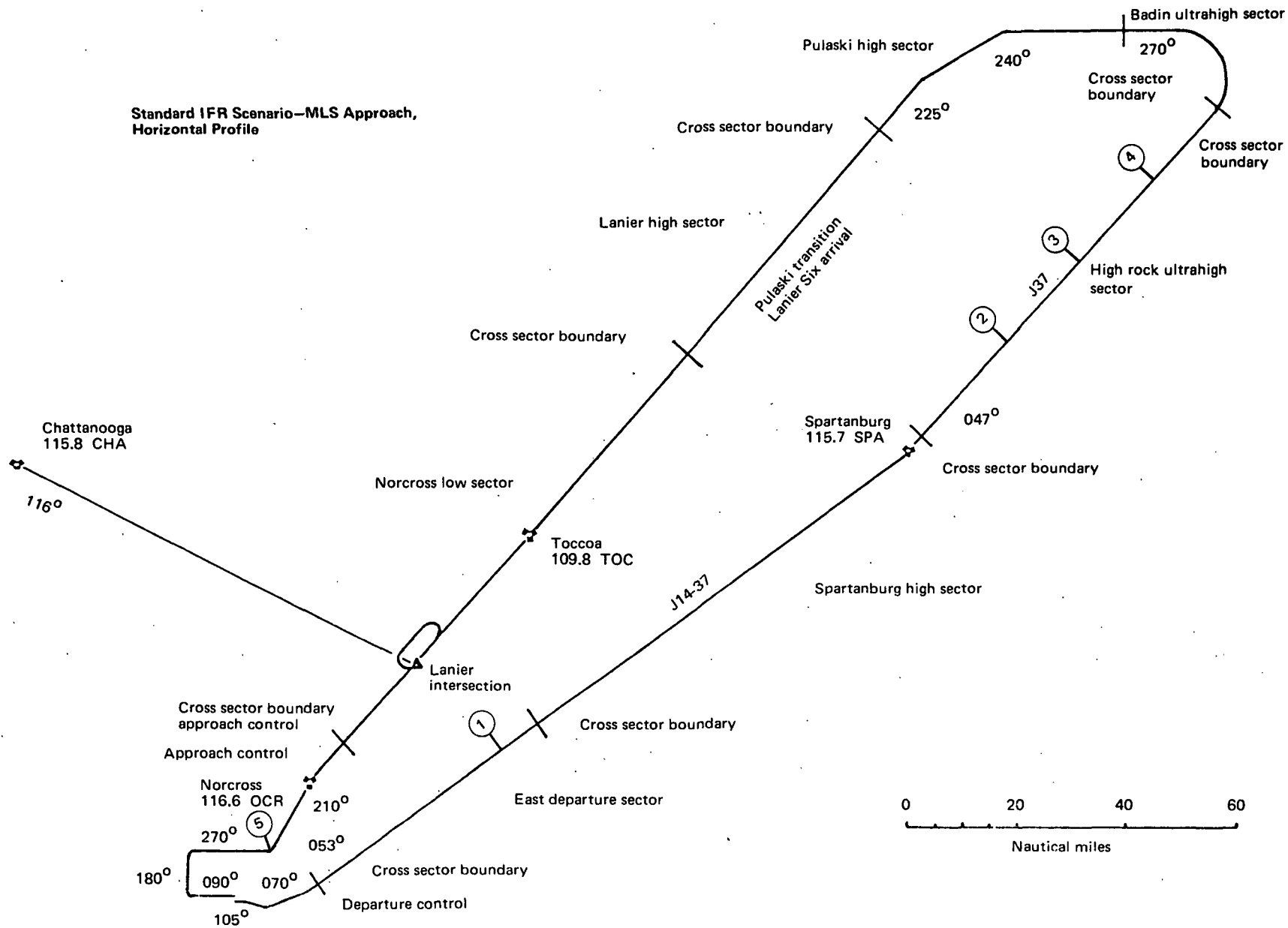
MLS approach to Hartsfield Atlanta International Airport.

(Note: Scenario 2 is identical to scenario 1  
through T = 1:58:20)

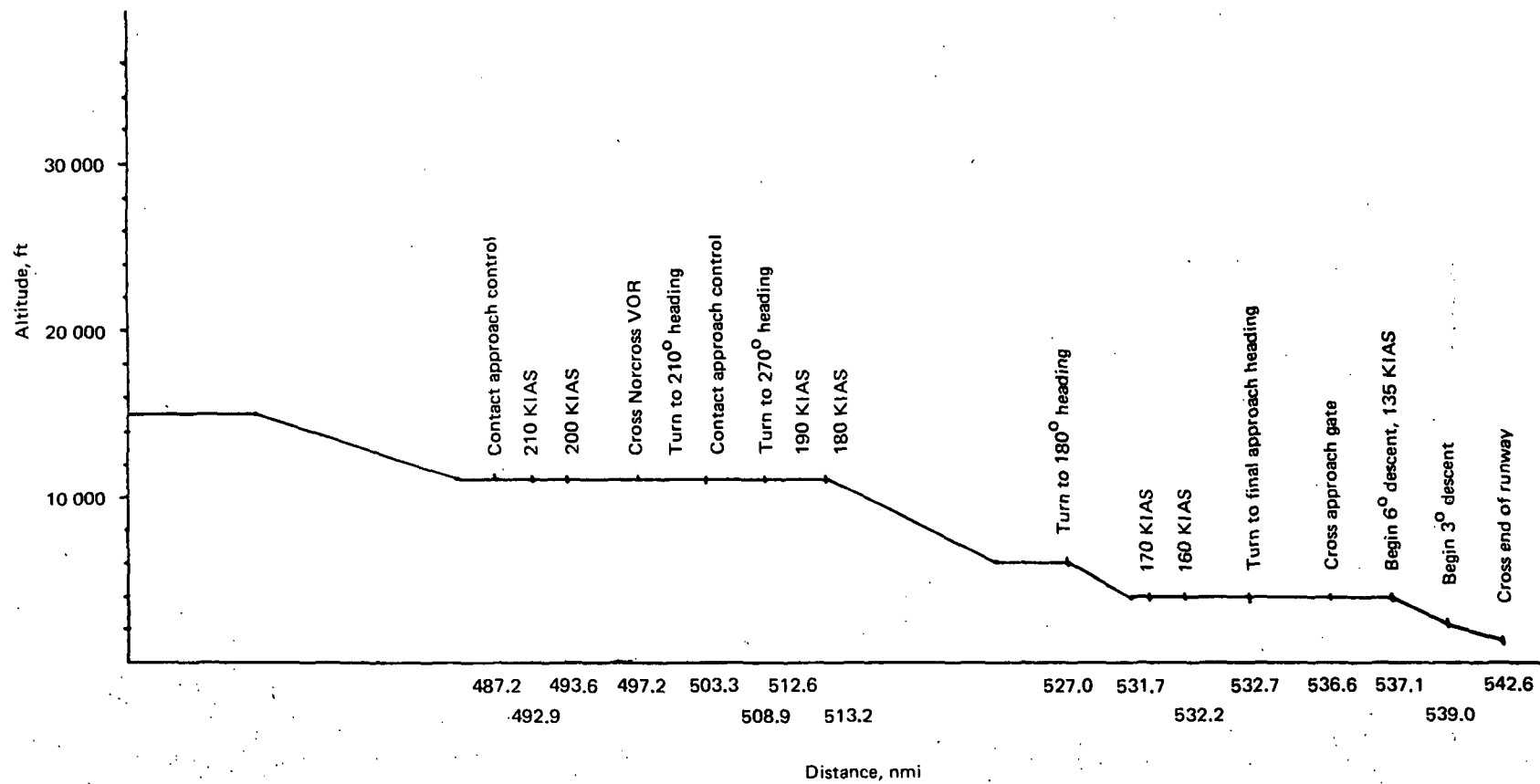
---

\*Scenario 2B is identical to 2A except for the addition  
of malfunction events.

Standard IFR Scenario—MLS Approach,  
Horizontal Profile



Standard IFB Scenario—MLS Approach,  
Vertical Profile



TIME	DIST.	ALT.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
min:sec	n.m.	ft.								
1:58:25 ± :05	492.2	11000	<u>Approach:</u> NASA 515, reduce speed to two zero zero knots, over.  <u>Pilot:</u> 515, roger. Slow to two zero zero. Adjust thrust.							
1:58:35 ± :05	492.9	11000	Reach 210 KIAS, set 1 <sup>0</sup> flaps.							
1:58:45 ± :02	493.6	11000	Reach 200 KIAS.							
1:59:35 ± :05	497.2	11000	Cross Norcross VOR.  <u>Approach:</u> NASA 515, turn left heading two one zero, over.  <u>Pilot:</u> 515 roger. Left heading two one zero. Begin turn to 210 <sup>0</sup> heading.							
1:59:45 ± :02	497.7	11000	Complete turn, tune MLS.					X	X	X
2:00:10 ± :10	503.3	11000	<u>Approach:</u> NASA 515, contact approach control on one two seven point two five, over.  <u>Pilot:</u> 515 roger, one two seven point two five.							



TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			Tune Approach Control frequency.			127.25				
			<u>Pilot:</u> Atlanta Approach Control, NASA 515 level one one thousand, over.							
			<u>Approach:</u> NASA 515, Atlanta Approach roger. Squawk ident. Key ident.							
2:01:35 ± :20	508.9	11000	<u>Approach:</u> NASA 515, turn right heading two seven zero, reduce speed to one eight zero, descend and maintain six thousand, over.							
			<u>Pilot:</u> 515 roger, right heading two seven zero, slow to one eight zero, maintain six thousand.							
			Begin turn.							
2:02:50 ± :05	512.0	11000	Complete turn.							
			Begin deceleration. Adjust thrust.							
2:03:00 ± :02	512.6	11000	Reach 190 KIAS, set flaps 5°.							
2:03:10 ± :02	513.2	11000	Reach 180 KIAS.							
			Begin descent to 6000 feet. Set thrust to flight idle.							

TIME	DIST. n.m.	ALT ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
2:06:30 ± :05	522.0	6000	Reach 6000 feet. Set thrust.							
2:07:00 ± :05	525.5	6000	MLS acquisition.							
2:08:00 ± :10	527.0	6000	<p><u>Approach:</u> NASA 515, turn left heading one eight zero, descend and maintain three six hundred, over,</p> <p><u>Pilot:</u> 515 roger, left heading one eight zero, maintain three six hundred.</p> <p>Begin descent, begin turn to 180° heading. Set thrust to flight idle.</p>							
2:09:00 ± :05	530.1	4200	Complete turn.							
2:09:20 ± :05	531.2	3600	<p>Reach 3600 feet. Set thrust.</p> <p><u>Approach:</u> NASA 515, reduce speed to one six zero knots, over.</p> <p><u>Pilot:</u> NASA 515 roger. Slow to one six zero.</p> <p>Begin deceleration. Adjust thrust.</p>							
2:09:30 ± :05	531.7	3600	Reach 170 KIAS, set flaps 15°.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
2:09:40 ± :05	532.2	3600	Reach 160 KIAS.							
			<p><u>Approach:</u> NASA 515, you are six miles from the approach gate. You are cleared for an MLS runway zero eight approach. Contact Atlanta Tower after crossing gate on one one niner point five, over.</p> <p><u>Pilot:</u> 515 roger, MLS runway zero eight approach, tower after gate on one one niner point five.</p> <p>Tune Atlanta Tower.</p>				119.5			
2:09:50 ± :02	532.7	3600	Begin runway centerline acquisition turn (160 KIAS, 15° bank, 90° turn).							
2:10:40 ± :02	535.1	3600	Complete turn.							
			<p><u>Approach:</u> NASA 515, maintain current speed until crossing approach gate.</p> <p><u>Pilot:</u> 515 roger.</p>							
2:11:10 ± :10	536.6	3600	Cross Approach Gate.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			Begin deceleration to Approach speed. Adjust thrust.							
			Select Tower frequency.							
			<u>Pilot:</u> Atlanta Tower, this is NASA 515, over approach gate inbound for runway zero eight, over.							
			<u>Tower:</u> NASA 515, Atlanta Tower roger. Cleared to land runway zero eight. Wind one one zero at zero niner.							
2:11:20 ± :05	537.1	3600	Begin 6 <sup>0</sup> first segment MLS approach. Adjust thrust. Gear down.							
2:11:40 ± :15	537.9	3088	Reach 135 KIAS. - Flaps 40. Checklist.							
2:12:10 ± :05	539.0	2180	Begin transition to 3 <sup>0</sup> second segment. Adjust thrust.							
2:12:15 ± :07	539.2	2080	Complete transition, speed 130 KIAS.							
2:13:06		1500	500 feet above runway							
2:13:32		1200	Decision height							
2:13:45 ± :05	542.6	1050	Cross end of runway.							
2:13:55 ± :02	542.9	1000	Touchdown, set speed brakes, thrust reversers.							
2:14:15 ± :05			Thrust reversers off							
2:14:25 ± :02			Speed brakes retract.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Tower</u> : NASA 515, exit runway next intersection, contact ground point niner when clear of runway, over.							
			<u>Pilot</u> : 515 roger, point niner when clear							
			Tune Ground Control.							121.9
2:14:30 ± :02			Select ground frequency.							
			<u>Pilot</u> : Atlanta Ground, this is NASA 515, taxi to gate X, over.							
			<u>Ground</u> : NASA 515, Atlanta Ground, roger. Taxi to ramp via northeast-southwest taxiway, over.							
			<u>Pilot</u> : 515 roger.							
			Continue taxi straight ahead.							
2:15:10 ± :10			Turn left 90° to ramp.							
2:16:05 ± :10			Arrive at gate, shut down engines.							

**APPENDIX THREE**  
**SCENARIOS 3A AND 3B**

## **SCENARIOS 3A AND 3B \***

IFR flight.—Hartsfield Atlanta International Airport  
to Washington National Airport with unscheduled return to  
Atlanta.

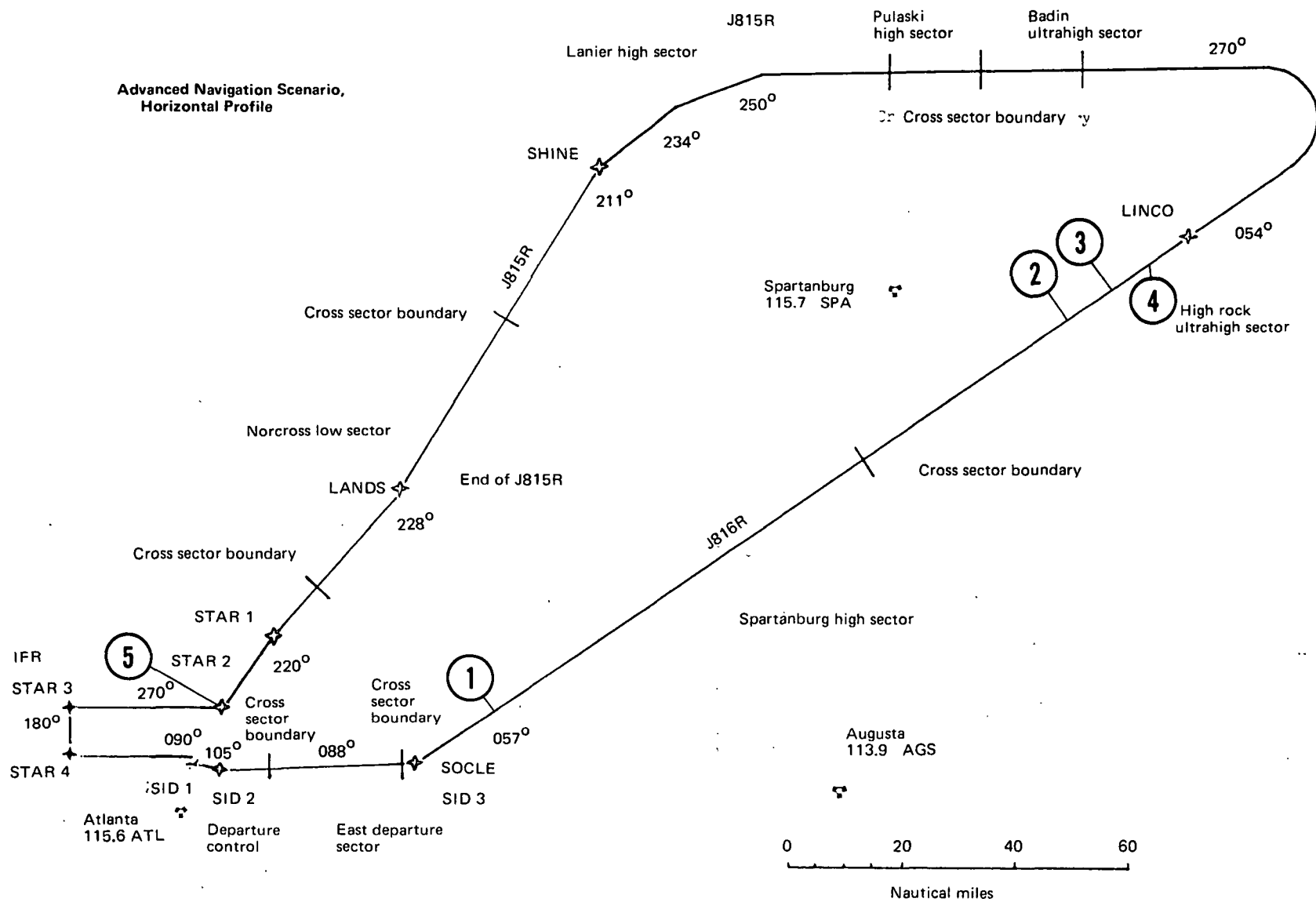
Advanced navigation concept.

ILS approach and landing procedures.

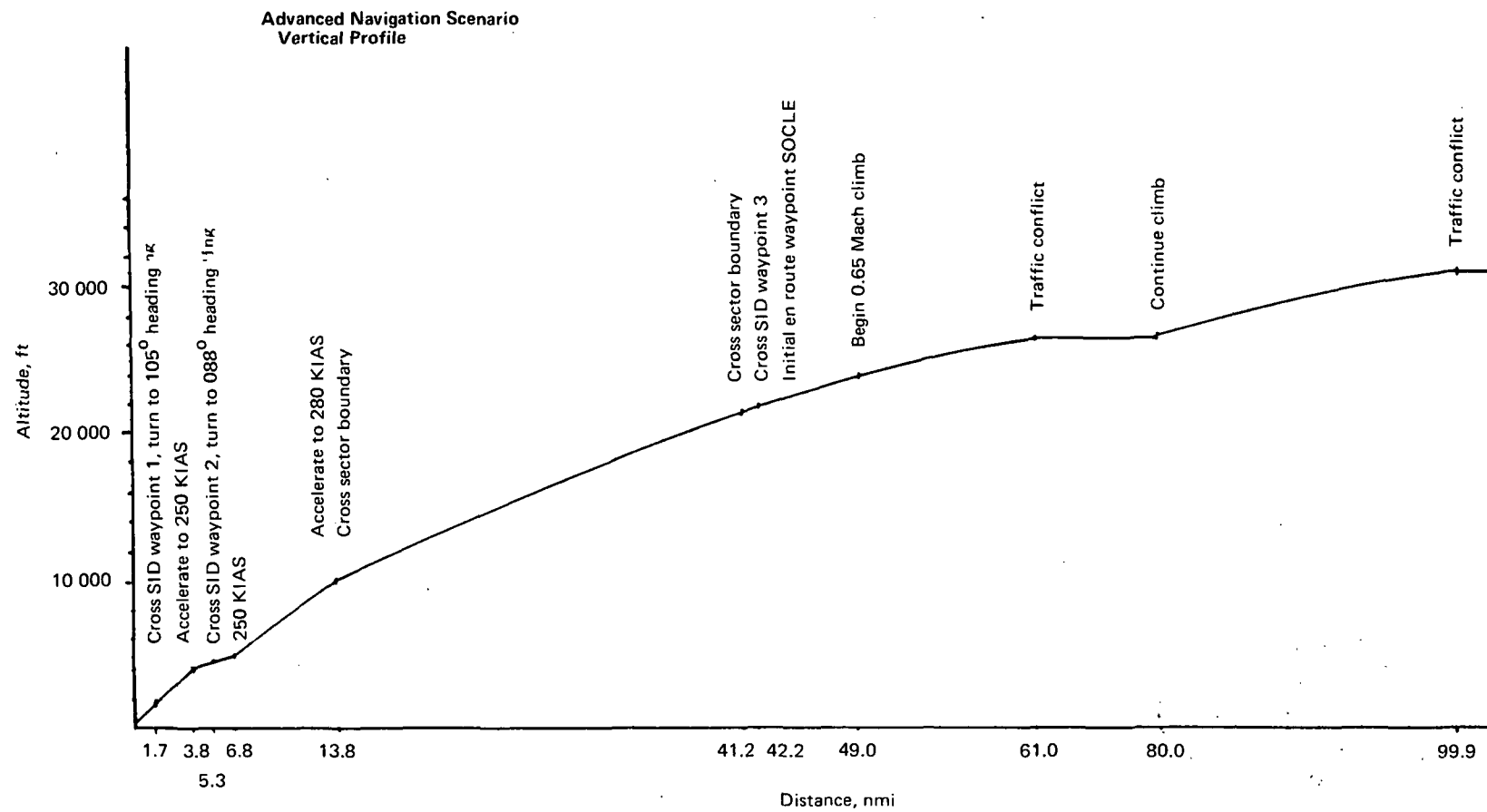
---

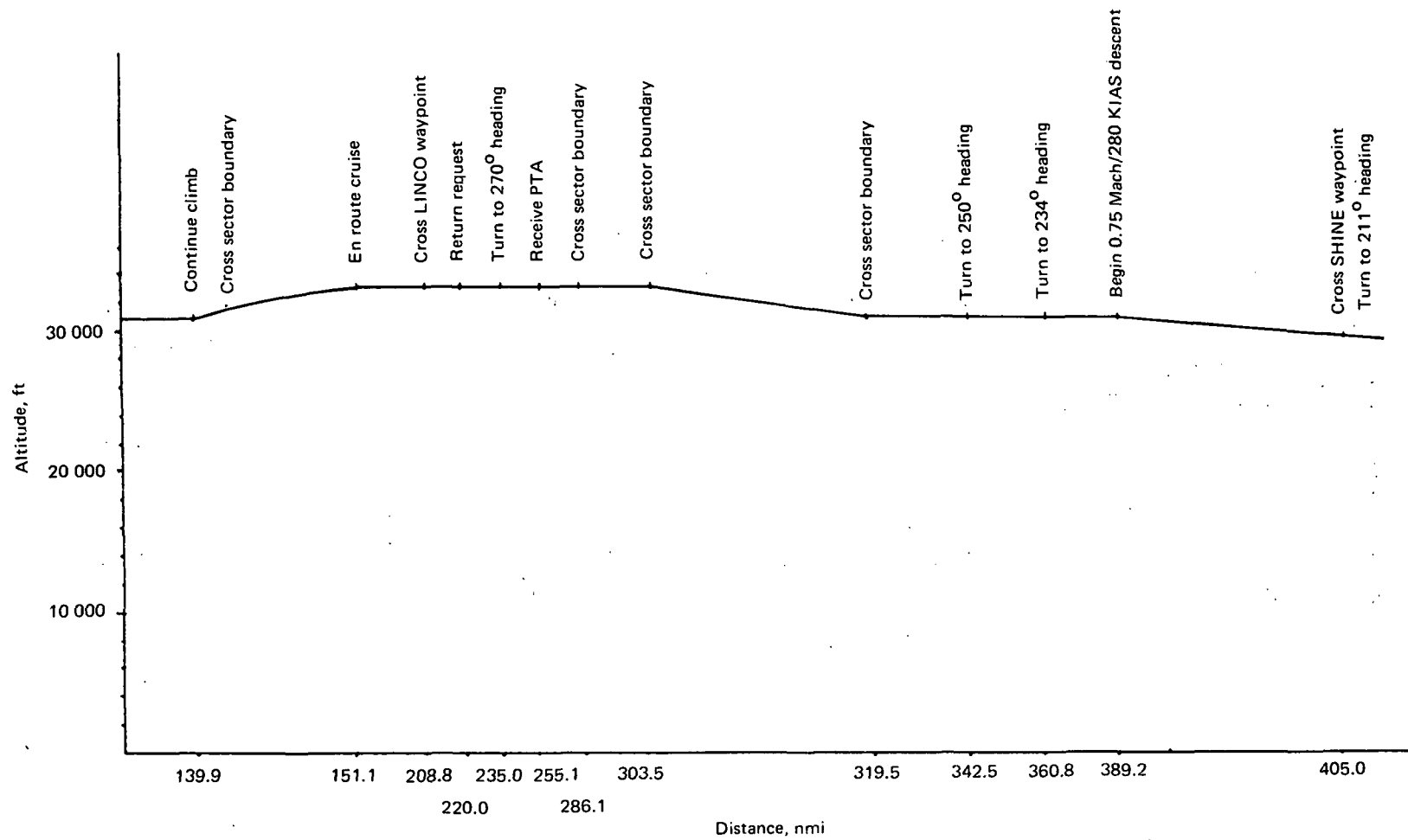
\*Scenario 3B is identical to 3A except for the addition  
of malfunction events.

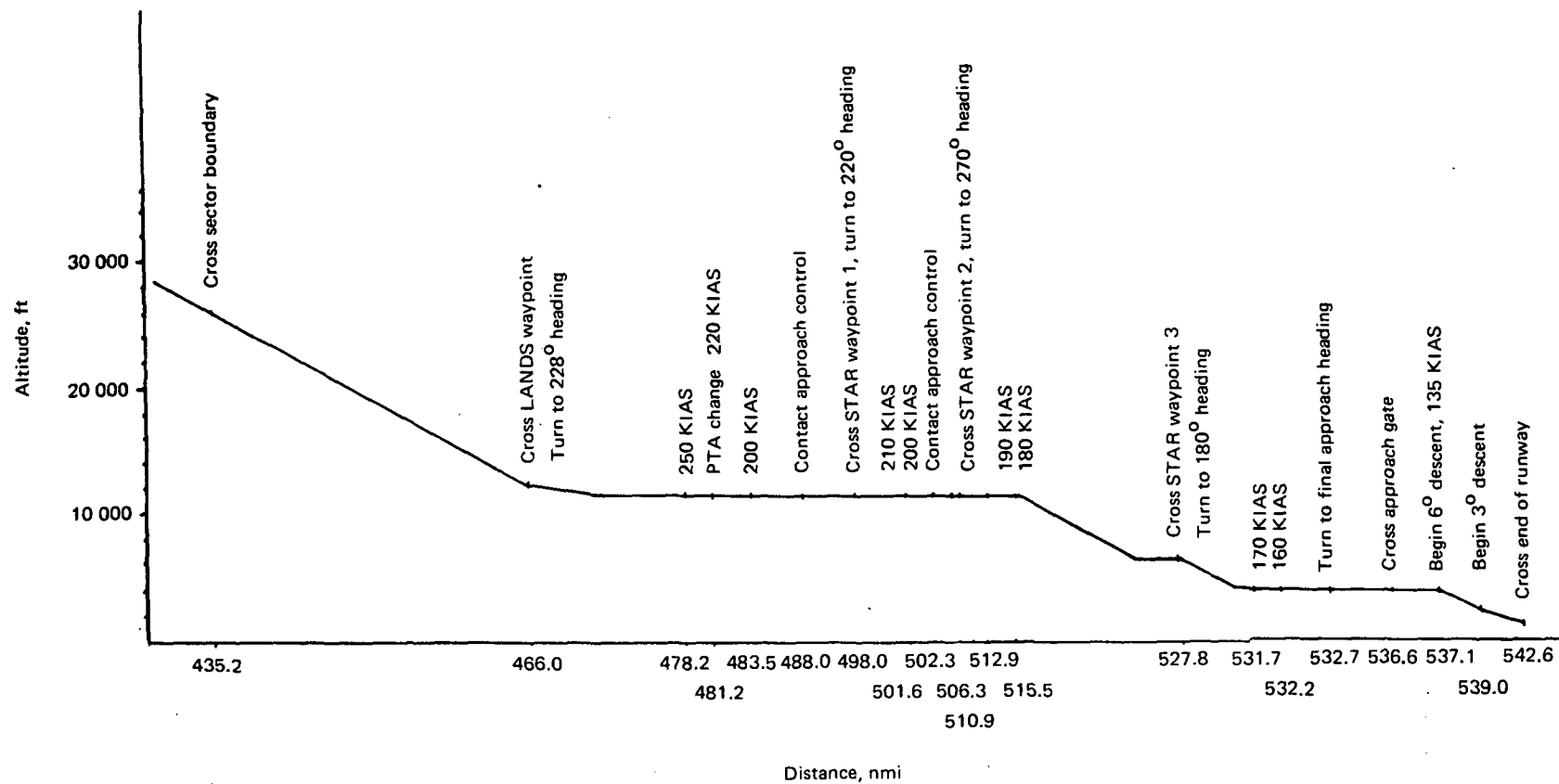
Advanced Navigation Scenario,  
Horizontal Profile











TIME	DIST.	ALT.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
	n.m.	ft.								

			Tune Clearance Delivery	121.65						
--	--	--	-------------------------	--------	--	--	--	--	--	--

			Tune Ground Control		121.9					
--	--	--	---------------------	--	-------	--	--	--	--	--

			Tune Atlanta Tower			119.5				
--	--	--	--------------------	--	--	-------	--	--	--	--

			Tune Departure ATIS				111.0			
--	--	--	---------------------	--	--	--	-------	--	--	--

			Select Clearance Delivery.							
--	--	--	----------------------------	--	--	--	--	--	--	--

Pilot: Atlanta Clearance Delivery, this is NASA 515 at gate X, IFR to Washington National (call up initiated not more than ten minutes before ready to taxi).

Clearance Delivery: ATC clears NASA 515 as filed.

Socle 9L departure, route J816R Jason 1 star, climb and maintain flight level three three zero, contact Atlanta departure on one two five point seven, squawk two two one three, over.

Pilot: NASA 515, roger, cleared as filed, Socle 9L departure, route J816R, Jason one star, climb and maintain flight level three three zero, departure on one two five point seven, squawk two two one three, over.

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<p><u>Clearance Delivery:</u> NASA 515, clearance correct, contact ground control on one two one point niner when ready to taxi.</p> <p><u>Pilot:</u> roger.</p> <p>Set transponder code.</p> <p><u>Select Departure ATIS:</u> Information KILO; one six one zero observation, three thousand scattered, ceiling five thousand broken, visibility two three, temperature five niner, wind one one five degrees at seven gusting to one six, altimeter two niner eight six, landings runways zero eight, niner right, departures runways zero eight, niner left. Noise abatement procedures are in effect. Advise controller on initial contact you have information Kilo.</p> <p>Set Altimeter 29.86</p> <p>Tune Atlanta VOR</p> <p>Tune Augusta VOR</p> <p>Tune Departure Control.</p>					115.6	115.6	113.9
							125.7			

TIME	DIST.	ALT.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
	n.m.	ft.								

Select Ground Control.

Pilot: Atlanta ground, this is NASA 515 at gate X, request permission to pushback. We have information Kilo, over.

Ground: NASA 515, Atlanta Ground, roger, clear to pushback. Advise when ready to taxi, over.

Pilot: NASA 515, roger.

Pushback - approximately 60-120 seconds.

Engine Start - estimate 30-60 seconds in addition to pushback time.

Pilot: Atlanta Ground, NASA 515, ready to taxi.

Ground: NASA 515, taxi to runway niner left via northeast-southwest taxiway. Hold short of runway zero eight, over.

Pilot: NASA 515, roger. Taxi runway niner left, hold short runway zero eight.

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
------	---------------	-------------	-------	------	------	------	------	------	------	------

Set takeoff flaps 5°.

Taxiing to runway 9L will involve straight apron segment of 1125 feet, right turn (90°) to 2000 feet segment of northeast-southwest taxiway. This takes aircraft to holding position for crossing runway 08 and should require 2 to 3 minutes taxi time. Holding at runway 08 could involve a departing or arriving aircraft using runway 08 which would require approximately 40 seconds to 90 seconds of wait time. Once cleared across runway 08:

Ground: NASA 515, cross runway zero eight, over.

Pilot: NASA 515 roger.

Taxiing will involve crossing congest 'X' intersection in middle of field. This intersection would be reached in 40 to 60 seconds after runway crossing. Possible traffic conflict could result here.

Ground: NASA 515, hold short of next intersection, cleared behind Eastern trijet, over.

Pilot: NASA 515 roger.

TIME	DIST.	ALT.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
	n.m.	ft.								

Once past intersection (90-120 seconds) ground control  
will contact aircraft:

Ground: NASA 515, contact Atlanta Tower on one one  
niner point five, over.

Pilot: NASA 515 roger, one one niner point five.

Select Atlanta Tower

(60° right turn must be executed at end of northeast-  
southwest taxiway onto parallel taxiway.)

In approximately 60 seconds:

Pilot: Atlanta Tower, this is NASA 515 ready for  
takeoff, runway niner left, over.

Tower: NASA 515, taxi into position and hold, over.

Pilot: NASA 515 roger.

Within approximately 60 to 90 seconds.



TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
------	---------------	-------------	-------	------	------	------	------	------	------	------

Tower: NASA 515, cleared for immediate takeoff.

Pilot: 515, rolling.

36:00	0	1000	Apply takeoff thrust.							
36:32 ± :05	0.6	1000	Rotation.							
36:37 ± :02	0.8	1035	Flare to 35 feet, speed: 145 knots, distance 5000 feet.							
36:42 ± :05	1.1	1250	Retract gear.							

Tower: NASA 515, contact Atlanta Departure on one two five point seven, good-day.

Pilot: NASA 515 roger, good-day.

Select Atlanta Departure frequency.

Pilot: Atlanta Departure, this is NASA 515, over.

Departure: NASA 515, Atlanta departure, roger. Squawk ident.

Key ident.

Departure: NASA 515, radar contact, Say Altitude, over.

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Pilot:</u> NASA 515, leaving one eight hundred.							
37:00 ± :05	1.7	1975	Cross (SID) Waypoint 01, turn to 105° heading. (15° turn - 15° bank)							
37:07 ± :02	2.0	2300	On 105° heading.							
37:15 ± :02	2.3	2500	Retract flaps to 1° detent, maintain $V_2 + 15$ , set climb thrust.							
37:53 ± :02	3.8	4000	Begin acceleration to 250 KIAS. Maintain 500-1000 ft/min. rate of climb.							
38:13 ± :05	5.0	4255	Select flaps 0°. Speed 190 KIAS.							
38:18 ± :02	5.3	4320	Cross (SID) Waypoint 02; turn left to 088° heading. (17° turn - 25° bank)							
38:24 ± :02	5.7	4400	Turn complete.							
38:42 ± :02	6.8	4625	Reach 250 KIAS.							
40:35 ± :10	13.8	10000	Begin acceleration to 280 KIAS, continue climb.							
			<u>Departure:</u> NASA 515, contact Atlanta center on one two three point niner five, over.							
			<u>Pilot:</u> 515 roger, one two three point niner five.							

TIME	DIST. n.m.	ALT ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			Tune Atlanta Center, East departure sector				123.95			
			Select Atlanta Center frequency.							
			<u>Pilot</u> : Atlanta Center, this is NASA 515 out of eleven thousand for flight level three three zero, over.							
			<u>Center</u> : NASA 515, Atlanta Center roger. Squawk ident. Key ident.							
			<u>Center</u> : NASA 515, radar contact, report leaving flight level two one zero, over.							
			<u>Pilot</u> : NASA 515, roger. Report flight level two one zero.							
			Tune Company frequency		ARINC					
			Tune Emergency frequency				121.5			
43:51 ± :10	33.7	18000	Set Altimeter 29.92							
45:05 ± :10	41.2	21000	<u>Pilot</u> : Atlanta Center, NASA 515 leaving flight level two one zero, over.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Center:</u> NASA 515 roger, contact center on one three three point seven, over.							
			<u>Pilot:</u> 515 roger, one three three point seven.							
			Tune Atlanta Center, Spartanburg High Sector.				133.7			
			Select Spartanburg High Frequency.				133.7			
45:15 ± :02	42.2	21400	Cross (SID) Waypoint 03 and initial en route waypoint (SOCLE), begin turn to J816R airway. Tune Spartanburg VOR. (31° turn - 15° bank).							
			<u>Pilot:</u> Atlanta Center, this is NASA 515 leaving flight level two one zero for flight level three three zero, over.							
			<u>Center:</u> NASA 515, Atlanta Center, roger. Squawk ident. Report leaving flight level two eight zero, over.							
			<u>Pilot:</u> NASA 515, roger. Report flight level two eight zero.							
45:57 ± :05	46.8	22750	Turn complete.							
46:17 ± :05	49.0	23400	Begin Mach 0.65 climb.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			Center: NASA 515 maintain flight level two six zero. Traffic twelve o'clock, four miles, northeast bound, C-130 assigned flight level two seven zero. over.							
			Pilot: 515 roger. Maintain flight level two six zero. We have traffic in sight.							
47:07 ± :05	54.5	25000	Begin 500 ft/min. rate of climb.							
48:07 ± :05	61.0	26000	Level flight, set thrust.							
51:03 ± :20	80.0	26000	Center: NASA 515, clear of traffic, climb and maintain flight level three three zero. Report leaving two eight zero, over.							
			Pilot: 515 roger, maintain three three zero, report leaving two eight zero.							
			Set climb thrust.							
52:06 ± :05	86.8	28000	Pilot: Atlanta Center, NASA 515 leaving flight level two eight zero, over.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Center:</u> NASA 515 climb and maintain flight level three one zero, over.							
			<u>Pilot:</u> 515 roger, maintain flight level three one zero.							
53:09 ± :05	93.5	30000	Begin 500 ft/min. rate of climb.							
54:09 ± :05	99.9	31000	Level flight, accelerate to long range cruise (.67 Mach).							
54:24 ± :05	101.7	31000	Attain long range cruise. Set thrust.							
58:14 ± :20	126.8	31000	Tune Spartanburg VOR.						115.7	
			<u>Center:</u> NASA 515, climb and maintain flight level three three zero. Contact center on one three four point five five, over.							
			<u>Pilot:</u> NASA 515 roger. Maintain flight level three three zero, center one three four point five five.							
			Tune Atlanta Center - High Rock Ultra High Sector.							134.55
			Select Atlanta Center frequency.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Pilot:</u> Atlanta Center, NASA 515 leaving flight level three one zero for flight level three three zero, over.							
			<u>Center:</u> NASA 515, Atlanta Center roger. Squawk ident.							
			Key ident.							
			<u>Center:</u> NASA 515, Report level flight level three three zero, over.							
			<u>Pilot:</u> 515 roger.							
1:00:57 ± :05	144.6	32000	Begin 500 ft/min. rate of climb.							
1:01:57 ± :05	151.1	33000	En route, accelerate to long range cruise.							
			<u>Pilot:</u> Atlanta Center, NASA 515 level at flight level three three zero, over.							
			<u>Center:</u> NASA 515, roger.							
1:02:40 ± :05	155.6	33000	Reach long range cruise. Set thrust.							
1:10:25 ± :40	208.8	33000	Cross LINCO Waypoint							
1:12:25 ± :20	220.0	33000	Pilot requests return to Atlanta.							

TIME	DIST. N.M.	ALT. FT.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
------	---------------	-------------	-------	------	------	------	------	------	------	------

Controller coordinates with adjoining sector for return vectors.

1:14:12 ± :10	235.0	33000	Center: NASA 515, for vectors to intercept Jay eight fifteen R, turn left heading two seven zero, over.							
---------------	-------	-------	---	--	--	--	--	--	--	--

Pilot: 515 roger, left heading two seven zero.

Begin turn (134° turn - 15° bank).

1:17:07 ± :20	255.1	33000	Turn complete.							
---------------	-------	-------	----------------	--	--	--	--	--	--	--

Center: NASA 515, you are cleared to the Atlanta International Airport via Jay eight fifteen R and Shine oh one Star. Planned time of arrival at Lakeside is 10:21:00.

1:21:37 ± :30	286.1	33000	Center: NASA 515, contact Center on one three five point three five, over.							
---------------	-------	-------	--	--	--	--	--	--	--	--

Pilot: 515 roger, one three five point three five.

Tune Atlanta Center - Badin Ultra High Sector.

135.35

Select Atlanta Center frequency.



TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Pilot:</u> Atlanta Center, NASA 515 level flight level three three zero, over.							
			<u>Center:</u> NASA 515 roger. Squawk ident. Key ident.							
1:24:09 ± :20	303.5	33000	<u>Center:</u> NASA 515, descend and maintain flight level three one zero. Contact center on one three two point seven five, over.							
			<u>Pilot:</u> NASA 515, roger. Maintain flight level three one zero, center one three two point seven five.							
			Set thrust to flight idle.							
			Tune Atlanta Center - Pulaski High Sector.							132.75
			Select Atlanta Center frequency.							
			<u>Pilot:</u> Atlanta Center, NASA 515 leaving flight level three three zero for flight level three one zero, over.							
			<u>Center:</u> NASA 515, Atlanta Center, roger. Squawk ident. Key ident.							
1:24:40 ± :05	319.5	31000	Reach FL310.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			<u>Center:</u> NASA 515, contact Atlanta center on one three two point eight, over.							
			<u>Pilot:</u> 515 roger, one three two point eight.							
			Tune Atlanta Center - Lanier High Sector				132.8			
			Select Atlanta Center frequency.							
			<u>Pilot:</u> Atlanta Center, NASA 515 level at flight level three one zero, over.							
			<u>Center:</u> NASA 515 roger. Squawk ident.							
			Key ident.							
1:31:20 ± :15	360.8	31000	Begin turn to J815R (234° heading). (16° turn - 15° bank)							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
1:31:40 ± :05	363.2	31000	Turn complete, on J815R.							
1:36:38 ± :20	389.2	31000	<p><u>Center:</u> NASA 515, report leaving flight level two six zero. Altimeter two niner eight eight, over.</p> <p><u>Pilot:</u> 515 roger, report flight level two six zero.</p> <p>Begin .75 Mach/280 KIAS descent, set thrust at flight idle.</p>							
1:39:00 ± :10	405.0	29500	Cross SHINE Waypoint, begin turn to 211° heading, (23° turn - 15° bank)							
1:39:34 ± :05	409.1	28000	Turn complete.							
1:43:50 ± :15	435.2	26000	<p><u>Pilot:</u> Atlanta Center, NASA 515 leaving flight level two six zero, over.</p> <p><u>Center:</u> NASA 515 roger. Contact center on one two five point two, over.</p> <p><u>Pilot:</u> 515 roger, center one two five point two.</p>							

TIME	DIST. n.m.	ALT ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			Tune Atlanta Center - Norcross Low Sector			125.2				
			Select Atlanta Center.							
			<u>Pilot</u> : Atlanta Center, NASA 515 leaving flight level two six zero for one one thousand, over.							
			<u>Center</u> : NASA 515, Atlanta Center, roger. Squawk ident. Key ident.							
1:48:22 ± :50	466.0	12000	Cross LANDS Waypoint (Last J815R Waypoint) Begin 500 ft/min. rate of descent.  Begin turn to 228° heading. (17° turn - 15° bank)							
1:48:41 ± :02	467.8	11600	Turn complete.							
1:49:22 ± :05	471.5	11000	Level flight, set thrust.							
1:50:22 ± :05	476.5	11000	Begin deceleration to 250 KIAS. Adjust thrust.							
1:50:57 ± :05	478.2	11000	Reach 250 KIAS. Set thrust.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
1:51:34 ± :05	481.2	11000	<p><u>Center:</u> NASA 515, due to traffic your Planned Time of Arrival at Lakeside is now 10:22:15 , over.</p> <p><u>Pilot:</u> 515 roger, time of arrival now 10:22:15.</p> <p>Begin deceleration to 220 KIAS.</p>							
1:52:04 ± :05	483.5	11000	Reach 220 KIAS. Adjust thrust.							
1:52:37 ± :05	488.0	11000	<p><u>Center:</u> NASA 515, contact Atlanta approach control on one two six point niner, over.</p> <p><u>Pilot:</u> 515 roger, approach control on one two six point niner.</p> <p>Tune Atlanta Approach Control</p> <p>Tune Arrival ATIS.</p> <p><u>Select Arrival ATIS:</u> Information Lima; one seven zero five observation, two five hundred scattered ceiling four thousand broken, visibility one six, temperature five niner, wind one one zero degrees at ten gusting to one seven, Altimeter two niner eight four, simultaneous parallel approaches in operation on runways zero eight and niner right. Advise controller on initial contact you have information Lima.</p>							
							126.9			
					123.7					

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			Set Altimeter to 29.84							
			Tune Atlanta VOR							115.6
			<u>Pilot:</u> Atlanta Approach, NASA 515 level one one thousand with information Lima, over.							
			<u>Approach:</u> NASA 515 roger, squawk ident.							
1:54:55 ± :05	498.0	11000	Cross (STAR) Waypoint 01, begin turn to 220° heading, begin deceleration to 200 knots. Adjust thrust.							
1:55:03 ± :02	498.6	11000	Turn complete.							
1:55:44 ± :05	501.6	11000	Reach 210, set flaps 1°.							
1:55:54 ± :02	502.3	11000	Reach 200 KIAS. Set thrust.							
1:56:55 ± :10	506.3	11000	<u>Approach:</u> NASA 515, contact Approach Control on one two seven point two five, over.							
			<u>Pilot:</u> 515 roger, one two seven point two five.							

TIME	DIST. N.M.	ALT. FT.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			Tune Approach Control frequency. Select frequency.			127.25				
			<u>Pilot</u> : Atlanta Approach Control, this is NASA 515 level one one thousand, over.							
			<u>Approach</u> : NASA 515, Atlanta Approach, roger. Squawk ident.							
1:58:05 ± :05	510.9	11000	Cross (STAR) Waypoint 02, begin right turn to 270° heading, begin deceleration to 180 KIAS. Adjust thrust.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
1:58:25		11000	Turn complete, begin deceleration, adjust thrust.							
1:58:45		11000	Reach 170 KIAS, set flaps 15°.							
1:59:45			Begin descent to 4500 feet. Set thrust at flight idle.							
2:02:25		4500	Reach 4500 feet. Set thrust for level flight.							
2:03:05		4500	Adjust thrust to reduce speed to 160.							
2:03:15		4500	Reach 160 KIAS. Set thrust.							
2:05:15		4500	Begin turn to 180 heading.							
2:06:10		4500	Turn complete.							
			<u>Approach:</u> NASA 515, contact tower at the outer marker on one one niner point five, over.							
			<u>Pilot:</u> 515 roger, tower at outer marker on one one niner point five.							
			Tune Atlanta Tower frequency.							119.5
2:06:40		4500	Begin turn to 120° heading.							
2:07:15		4500	Turn complete.							



TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
2:08:05		4500	Begin turn to 90° heading (final approach heading). Capture ILS localizer.							
2:08:25		4500	Turn complete.							
2:09:25		4500	Adjust thrust to slow to 150 KIAS.							
2:09:35		4500	Reach 150 KIAS. Acquire glide slope. Set thrust.  Set flaps 25°.							
2:10:05		3600	Cross Stubbs, begin speed reduction to 135 KIAS, set landing flaps 40°. Adjust thrust.							
2:11:15		2665	Cross Outer Marker, gear down.  Select Tower frequency.  <u>Pilot:</u> Atlanta Tower, this is NASA 515 over lakeside inbound for runway zero eight, over.  <u>Tower:</u> NASA 515, Atlanta Tower, roger. Cleared to land runway zero eight. Wind one one zero degrees at zero niner.  <u>Pilot:</u> 515 roger.							

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
2:12:27			Pass through 1500 feet.							
2:12:45		1213	Cross Middle Marker, speed 130 KIAS. Decision Height							
2:13:00		1050	Cross end of runway.							
2:13:10		1000	Touchdown, thrust reversers.							
2:13:35			Thrust reversers off.							
2:13:45			Speed brakes retract.							
			<u>Tower</u> : NASA 515, exit runway next intersection, contact ground point niner when clear of runway, over.							
			<u>Pilot</u> : 515 roger, point niner when clear.							
			Tune Ground Control.							121.9
			Select ground frequency.							
			<u>Pilot</u> : Atlanta ground, this is NASA 515, taxi to gate X, over.							
			<u>Ground</u> : NASA 515, Atlanta Ground, taxi to ramp via northeast-southwest taxiway, over.							

**APPENDIX FOUR**  
**SCENARIOS 4A AND 4B**

## **SCENARIOS 4A AND 4B\***

IFR flight.—Hartsfield Atlanta International Airport  
to Washington National Airport with unscheduled return to  
Atlanta.

Advanced Navigation Concept.

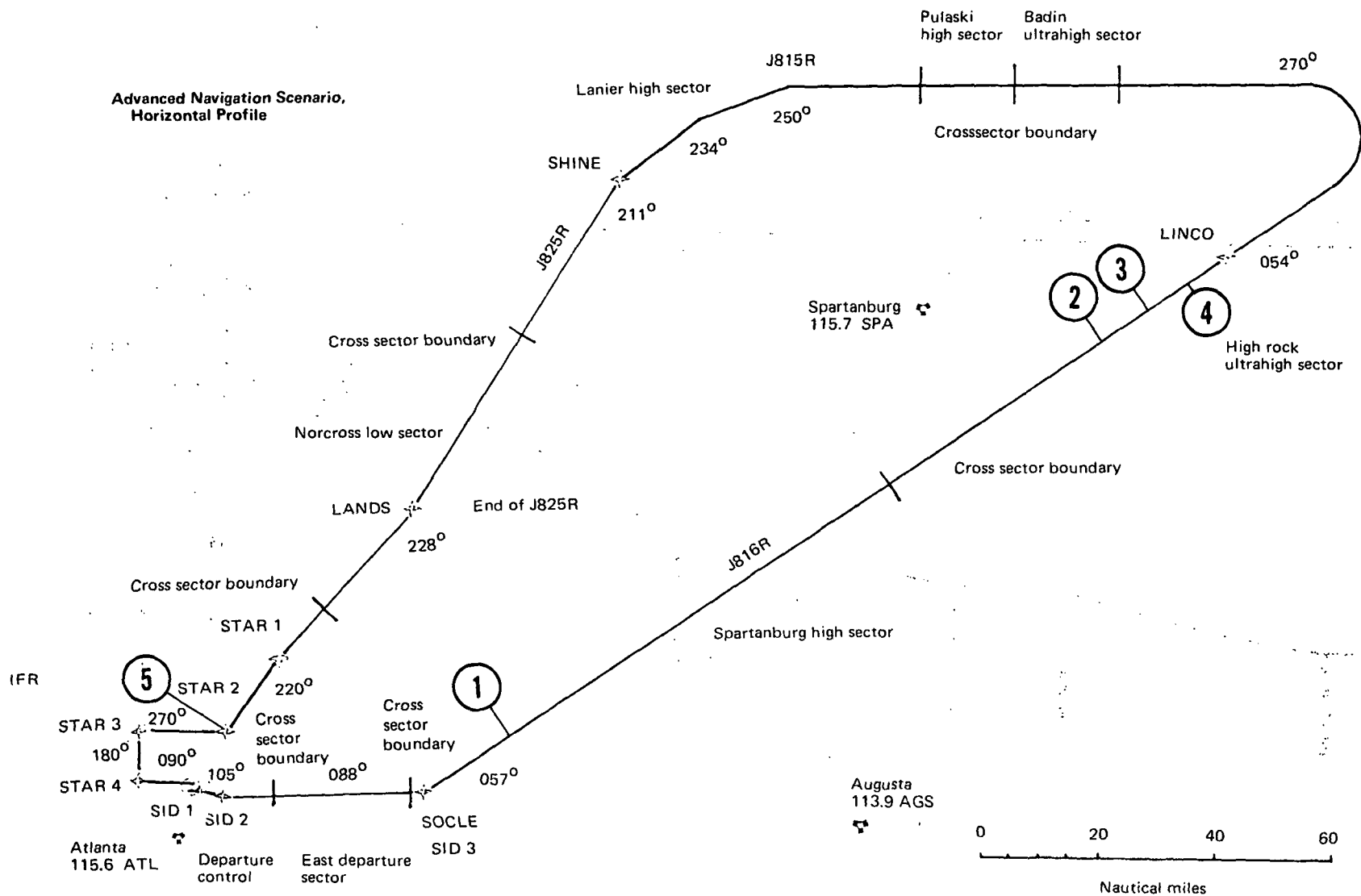
MLS procedures.

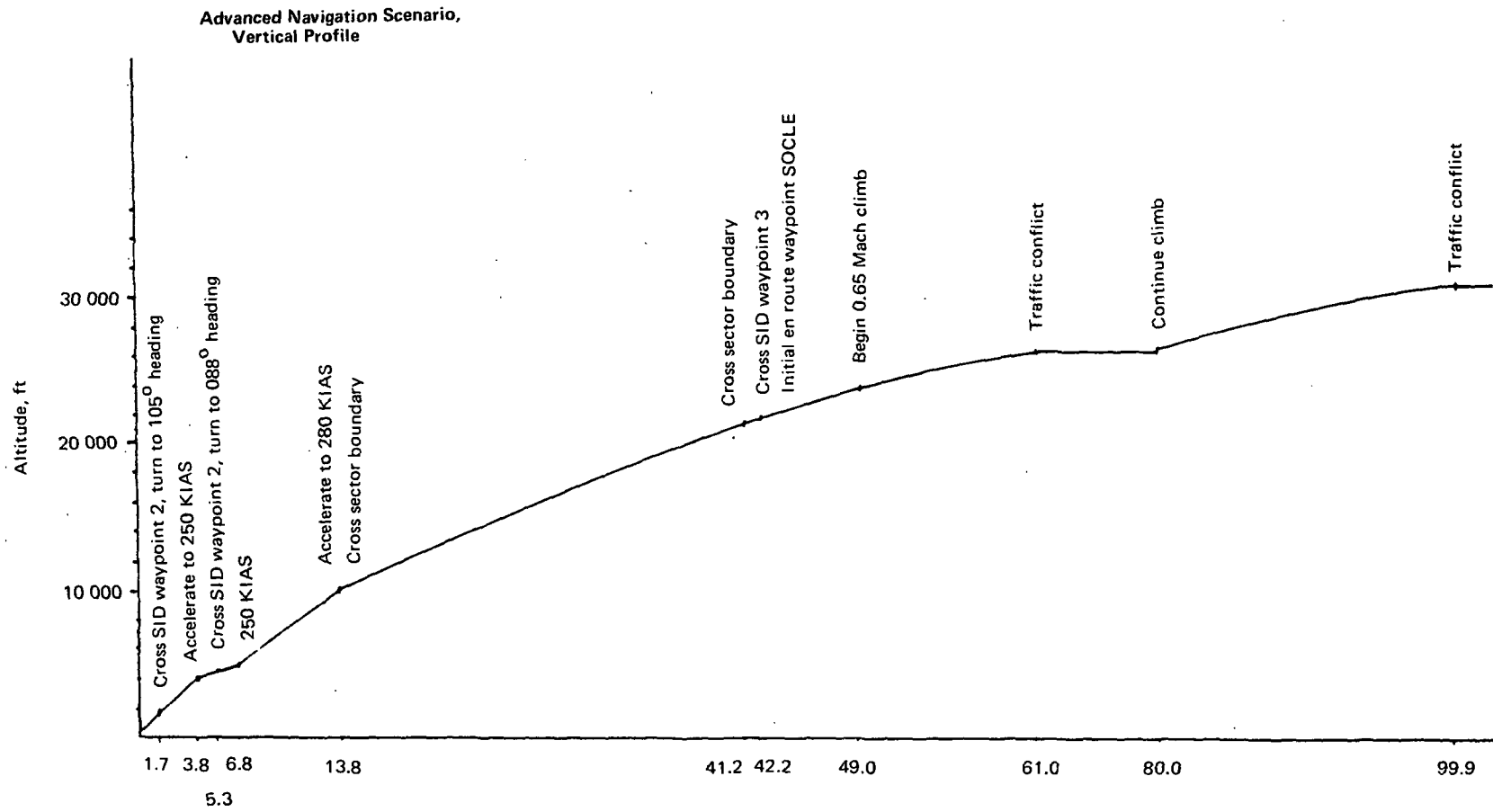
(Note: Scenario 4 is identical to scenario 3 through  
T = 1:58:05)

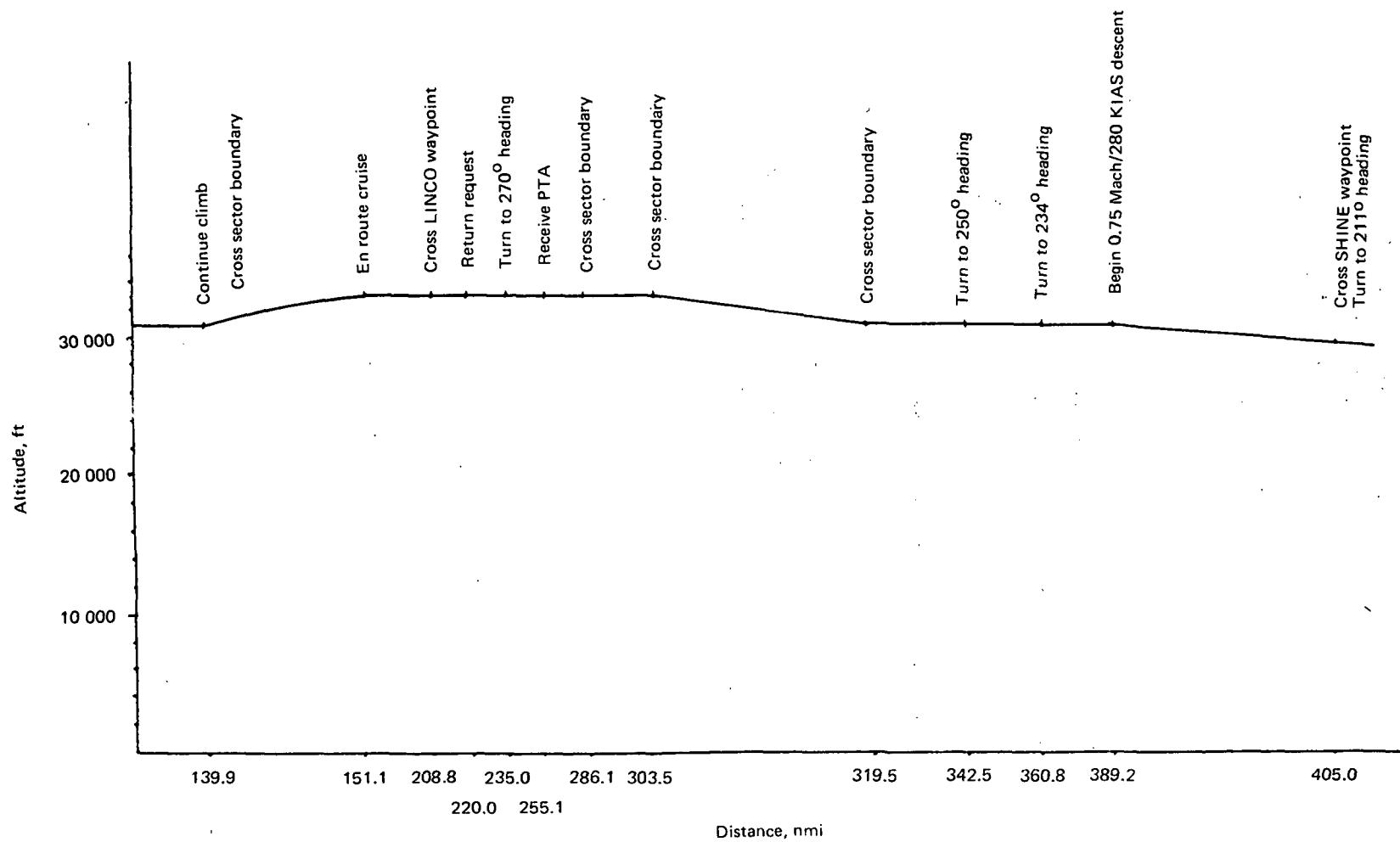
---

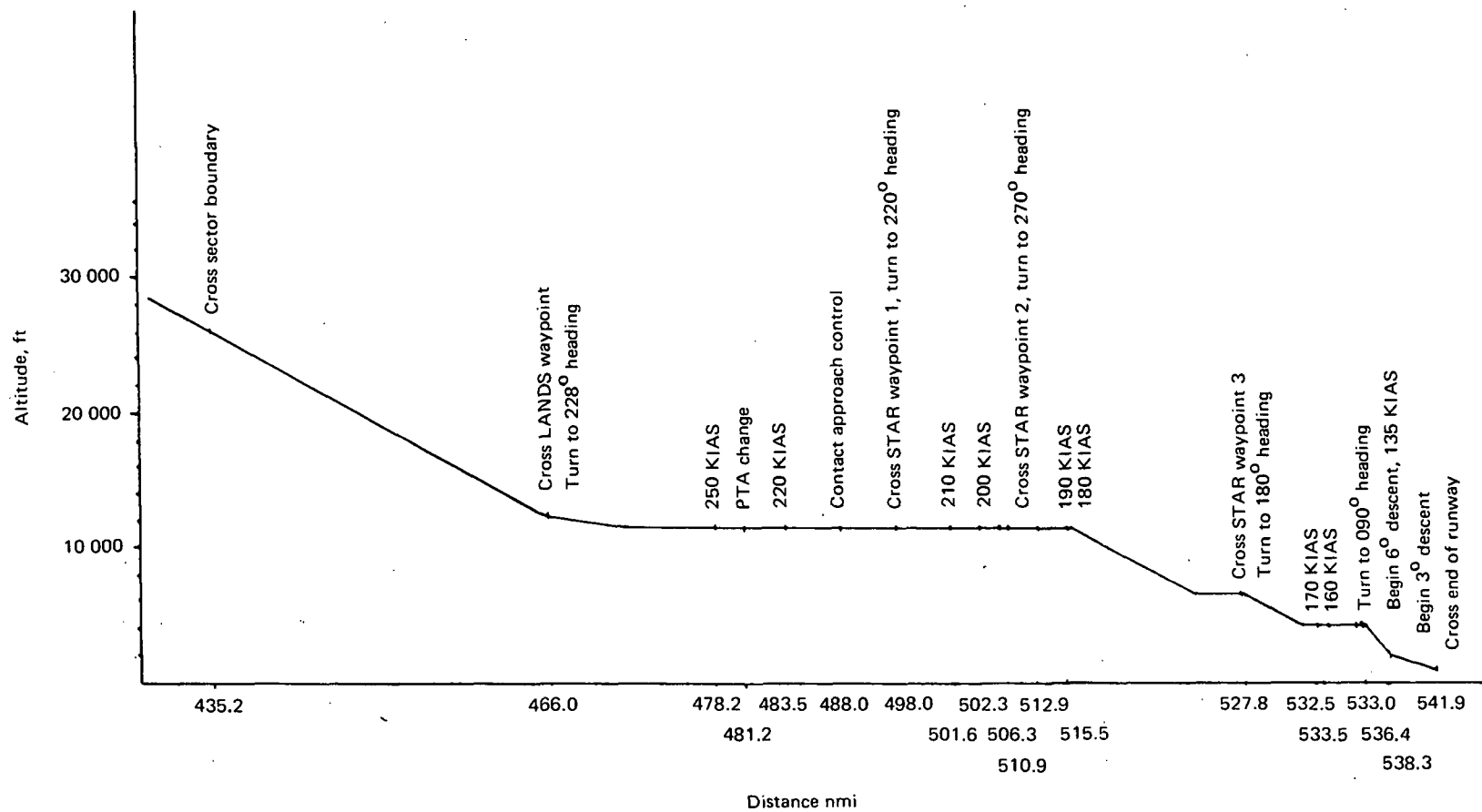
\*Scenario 4B is identical to 4A except for the addition of  
malfunction events.

**Advanced Navigation Scenario,  
Horizontal Profile**











TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			Tune Approach Control frequency.			127.25				
			Select frequency.							
			<u>Pilot</u> : Atlanta Approach Control, this NASA 515 level one one thousand, over.							
			<u>Approach</u> : NASA 515, Atlanta Approach, roger. Squawk ident.							
1:58:05 ± :05	510.9	11000	Cross (STAR) Waypoint 02, begin right turn to 270° head- ing, begin deceleration to 180 KIAS. Adjust thrust.							
1:58:26 ± :05	512.3	11000	Turn complete.							
1:58:36 ± :05	512.9	11000	Reach 190 KIAS, set flaps 5°.							
1:58:46 ± :05	515.5	11000	Reach 180 KIAS, begin descent to 6000 feet.							
2:01:26 ± :05	524.3	6000	Reach 6000 feet, tune MLS. Set thrust.						X	
2:02:22 ± :05	527.3	6000	MLS Acquisition							
2:02:32 ± :05	527.8	6000	Cross (STAR) Waypoint 03, begin turn to 180° heading, begin descent to 3600 feet.							
2:03:29 ± :05	530.9	4200	Turn complete, tune MLS.						X	X

TIME	DIST.	ALT.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
	n.m.	ft.								
2:03:49 ± :05	532.0	3600	Reach 3600 feet, begin deceleration to 160 KIAS.							
2:03:59 ± :05	532.5	3600	Reach 170 KIAS, set flaps 15°.							
2:04:09 ± :05	533.0	3600	Reach 160 KIAS. Set thrust.							
2:04:19 ± :02	533.5	3600	Begin turn to 90° heading (final approach heading).							
2:04:57 ± :05	535.9	3600	Turn complete.							

Approach: NASA 515 contact Atlanta Tower on one one niner point five, over.

Pilot: 515 roger, one one niner point five.

Tune Atlanta Tower.

119.5

Select Atlanta Tower frequency.

Pilot: Atlanta Tower, NASA 515 at Lakeside inbound for runway zero eight, over.

Tower: NASA 515, Atlanta Tower, roger. Cleared to land runway zero eight. Wind one one zero at zero niner.

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			Cross (STAR) Waypoint 04 (Lakeside). Begin deceleration to 135 KIAS. Adjust thrust.							
2:05:07 ± :02	536.4	3600	150 KIAS, flaps 25							
			Begin 6 <sup>0</sup> first segment MLS approach.							
			Gear down.							
2:05:25 ± :05	537.2	3088	Reach 135 KIAS.							
			Faps 40 Checklist							
2:05:54 ± :05	538.3	2180	Transition to 3 <sup>0</sup> second segment.							
2:05:59 ± :02	538.5	2080	Transition complete, speed 130 KIAS.							
			500 feet above runway.							
2:07:29 ± :15	541.9	1050	Cross end of runway (Waypoint 05).							
2:07:41 ± :05	542.2	1000	Touchdown, set speed brakes, set thrust reversers.							
2:08:01 ± :05			Thrust reversers off.							
2:08:11 ± :02			Speed brakes retract.							
			<u>Tower</u> : NASA 515, exit runway next intersection, contact ground point niner when clear of runway, over.							
			<u>Pilot</u> : 515 roger, point niner when clear.							
			Tune Ground Control.							
										121.9

TIME	DIST. n.m.	ALT. ft.	EVENT	COM1	COM2	COM3	COM4	NAV1	NAV2	NAV3
			Select Ground frequency.							
			<u>Pilot</u> : Atlanta Ground, this is NASA 515, taxi to gate X, over.							
			<u>Ground</u> : NASA 515, Atlanta Ground, roger. Taxi to ramp via northeast-southwest taxiway, over.							
			<u>Pilot</u> : 515 roger.							
			Continue taxi straight ahead.							
± :10			Turn left 90° to ramp.							
± :10			Arrive at Gate      Shut down engines.							

**APPENDIX FIVE**  
**TASK CATALOG FOR THE NASA 515**

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1A	C1	MON VHF-1L FREQ IND	1	.76	0	100	0	0	0	20	0	0
			2	4.03	0	100	0	0	0	20	0	0
			3	4.96	0	100	0	0	0	20	0	0
1A	C2	SET VHF-1L FREQ - WHOLE NO.S	1	2.05	0	10	0	100	0	0	20	0
			2	2.98	0	100	1000	0	0	0	20	0
			3	2.05	0	10	100	0	0	0	20	0
1A	C3	SET VHF-1L FREQ - FRACTIONS	1	1.98	0	100	1000	0	0	0	20	0
			2	1.98	0	100	0	100	0	0	20	0
1A	C4	ADJ VHF-1 VOLUME	1	2.08	0	100	1000	0	0	0	20	0
			2	2.11	0	100	0	100	0	0	20	0
1A	C5	SET VHF-1 COMM TFR SW TO LEFT	1	2.39	0	100	100	0	0	0	20	0
			2	1.43	0	100	100	0	0	0	20	0
			3	2.30	0	100	0	100	0	0	20	0
			4	1.43	0	100	0	100	0	0	20	0
1A	C6	SET VHF-1 COMM TFR SW TO RIGHT	1	2.39	0	100	100	0	0	0	20	0
			2	1.43	0	100	100	0	0	0	20	0
			3	2.30	0	100	0	100	0	0	20	0
			4	1.43	0	100	0	100	0	0	20	0
1A	C7	MON VHF-1R FREQ IND	1	.76	0	100	0	0	0	20	0	0
			2	4.86	0	100	0	0	0	20	0	0
			3	4.96	0	100	0	0	0	20	0	0
			4	3.99	0	100	0	0	0	20	0	0
1A	C8	SET VHF-1R FREQ - WHOLE NO.S	1	2.88	0	10	0	100	0	0	20	0
			2	2.98	0	10	100	0	0	0	20	0
			3	2.01	0	10	100	0	0	0	20	0
			4	2.01	0	10	0	100	0	0	20	0
1A	C9	SET VHF-1R FREQ - FRACTIONS	1	1.98	0	10	100	0	0	0	20	0
			2	1.98	0	10	0	100	0	0	20	0
			3	2.11	0	10	0	100	0	0	20	0
1A	10	ACT PUSH-TO-TALK SW	1	3.50	0	0	0	100	0	0	20	0
			2	5.00	0	0	0	100	0	0	20	0
			3	1.70	0	0	0	100	0	0	20	0
			4	6.00	0	0	0	100	0	0	20	0
1A	11	COMM VIA VHF-1	1	5.00	0	0	0	0	0	0	0	0
			2	12.00	0	0	0	0	0	0	0	0
			3	1.70	0	0	0	0	0	0	0	0
			4	7.00	0	0	0	0	0	0	0	0
1A	12	COMM VIA VHF-1	1	3.50	0	0	0	0	0	0	0	0
			2	3.00	0	0	0	0	0	0	0	0
			3	6.00	0	0	0	0	0	0	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
1A 14	MON VHF-1 COMM AUDIO	1	17.00	0	C	C	C	0	0	0	0	0
		2	6.00	0	0	C	0	0	0	0	0	
		3	7.00	0	C	C	0	0	0	0	0	
		4	3.00	0	C	C	0	0	0	0	0	
1A 15	MON VHF-1 COMM AUDIO	1	5.00	0	0	C	C	0	0	0	0	
		2	4.00	0	C	C	0	0	0	0	0	
		3	24.00	0	C	C	0	0	0	0	0	
		4	2.50	0	0	C	C	0	0	0	0	
1A 17	SET COMM 2 VHF-1 COMM RECVR SW TO ON	1	2.39	0	100	100	0	0	0	20	0	
		2	1.52	0	100	100	0	0	0	20	0	
		3	2.09	0	100	C	100	0	0	20	0	
		4	1.60	0	100	C	100	0	0	20	0	
1A 18	SET COMM 2 VHF-1 COMM RECVR SW TO OFF	1	2.39	0	100	100	0	0	0	20	0	
		2	1.52	0	100	C	100	0	0	20	0	
		3	2.09	0	100	C	100	0	0	20	0	
		4	1.60	0	100	C	100	0	0	20	0	
1A 19	SET COMM 2 MIC SEL SW TO VHF-1	1	2.86	0	100	100	0	0	0	20	0	
		2	1.99	0	100	C	100	0	0	20	0	
		3	2.92	0	100	C	100	0	0	20	0	
		4	1.99	0	100	100	C	0	0	20	0	
1A 20	ACT COMM 2 PUSH-TO- TALK SW	1	1.42	0	10	100	0	0	0	20	0	
		2	1.42	0	10	0	100	0	0	20	0	
		3	1.50	0	10	100	C	0	0	20	0	
		4	2.35	0	10	100	C	0	0	20	0	
1A 21	SET COMM 2 BODM/EXY SW TO BODM	1	1.50	0	100	C	100	0	0	20	0	
1A 22	SET COMM 2 BODM/EXY SW TO EXY	1	1.50	0	100	C	100	0	0	20	0	
		2	2.35	0	100	C	100	0	0	20	0	
1A 23	ADJ COMM 2 MIC VOL	1	2.04	0	10	C	100	0	0	20	0	
1A 24	ACT COMM 2 PUSH-TO- TALK SW	1	6.42	0	10	100	0	0	0	20	0	
		2	13.42	0	10	100	0	0	0	20	0	
		3	3.12	0	10	100	C	0	0	20	0	
1A 25	ACTUATE COMM 2 PUSH- TO-TALK SW	1	7.00	0	10	C	100	0	0	20	0	
		2	1.70	0	10	C	100	0	0	20	0	
		3	2.35	0	10	C	100	0	0	20	0	
		4	3.00	0	10	C	100	0	0	20	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME										
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL		
18	C1 MON VHF-2L FREQ IND	1	.76	0	100	0	0	0	0	20	0	0		
		2	4.88	0	100	0	0	0	0	20	0	0		
		3	5.08	0	100	0	0	0	0	20	0	0		
18	C2 SET VHF-2L FREQ- WHOLE NO.S	1	2.20	0	10	100	0	0	0	20	0	0		
		2	2.90	0	10	100	0	0	0	20	0	0		
		3	2.40	0	10	0	100	0	0	20	0	0		
		4	3.10	0	10	0	100	0	0	20	0	0		
18	C3 SET VHF-2L FREQ - FRACTIONS	1	1.98	0	10	100	0	0	0	20	0	0		
		2	1.98	0	10	0	100	0	0	20	0	0		
18	C4 ADJ VHF-2 VOLUME	1	2.00	0	10	100	0	0	0	20	0	0		
		2	2.09	0	10	100	0	0	0	20	0	0		
		3	2.09	0	10	0	100	0	0	20	0	0		
		4	2.19	0	10	0	100	0	0	20	0	0		
18	C5 SET VHF-2 COMM TFR SW TO LEFT	1	1.45	0	100	100	0	0	0	20	0	0		
		2	2.39	0	100	0	100	0	0	20	0	0		
		3	1.45	0	100	100	0	0	0	20	0	0		
		4	2.30	0	100	100	0	0	0	20	0	0		
18	C6 SET VHF-2 COMM TFR SW TO RIGHT	1	1.45	0	100	100	0	0	0	20	0	0		
		2	2.39	0	100	0	100	0	0	20	0	0		
		3	1.45	0	100	100	0	0	0	20	0	0		
		4	2.39	0	100	100	0	0	0	20	0	0		
18	C7 MON VHF-2R FREQ IND	1	.76	0	100	0	0	0	0	20	0	0		
		2	4.01	0	100	0	0	0	0	20	0	0		
		3	4.86	0	100	0	0	0	0	20	0	0		
18	C8 SET VHF-2R FREQ - WHOLE NO.S	1	2.03	0	10	100	0	0	0	20	0	0		
		2	2.68	0	10	100	0	0	0	20	0	0		
		3	2.03	0	10	0	100	0	0	20	0	0		
		4	2.98	0	10	0	100	0	0	20	0	0		
18	C9 SET VHF-2R FREQ - FRACTIONS	1	1.98	0	10	100	0	0	0	20	0	0		
		2	1.98	0	10	0	100	0	0	20	0	0		
18	C10 SET COMM 2 MIC SEL SW TO VHF-2	1	2.66	0	100	100	0	0	0	20	0	0		
		2	1.99	0	100	0	100	0	0	20	0	0		
		3	2.92	0	100	0	100	0	0	20	0	0		
18	C11 SET COMM 2 VHF-2 COMM RECVR SW TO ON	1	2.09	0	100	0	100	0	0	20	0	0		
		2	1.52	0	100	0	100	0	0	20	0	0		
		3	2.39	0	100	100	0	0	0	20	0	0		
		4	1.44	0	100	100	0	0	0	20	0	0		
18	C12 SET COMM 2 VHF-2 COMM RECVR SW TO OFF	1	2.09	0	100	0	100	0	0	20	0	0		
		2	1.52	0	100	0	100	0	0	20	0	0		
		3	2.39	0	0	100	100	0	0	20	0	0		
		4	1.44	0	100	100	0	0	0	20	0	0		



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
18	13 ACT COMM 2 PUSH-TO-TALK SW	1	1.42	0	10	100	0	0	0	20	0	0
		2	1.42	0	10	0	100	0	0	20	0	0
		3	3.50	0	10	100	0	0	0	20	0	0
		4	2.30	0	0	0	0	0	0	0	0	0
18	14 ACT PUSH-TO-TALK SW ON HANDGRIP	1	4.80	0	0	0	100	0	0	20	0	0
		2	2.50	0	0	0	100	0	0	20	0	0
		3	1.50	0	0	0	100	0	0	20	0	0
18	15 COMM VIA VHF-2	4	1.70	0	0	0	100	0	0	20	0	0
		2	2.50	0	0	0	0	0	0	0	0	0
		3	1.50	0	0	0	0	0	0	0	0	0
		4	1.70	0	0	0	0	0	0	0	0	0
18	16 COMM VIA VHF-2	1	3.50	0	0	0	0	0	0	0	0	0
		2	2.30	0	0	0	0	0	0	0	0	0
		3	4.50	0	0	0	0	0	0	0	0	0
		4	2.80	0	0	0	0	0	0	0	0	0
18	17 COMM VIA VHF-2	1	7.00	0	0	0	0	0	0	0	0	0
		2	5.00	0	0	0	0	0	0	0	0	0
		3	4.00	0	0	0	0	0	0	0	0	0
		4	6.00	0	0	0	0	0	0	0	0	0
18	18 MON VHF-2 COMM AUDIO	1	30.00	0	0	0	0	0	0	0	0	0
		2	2.50	0	0	0	0	0	0	0	0	0
		3	6.00	0	0	0	0	0	0	0	0	0
		4	3.50	0	0	0	0	0	0	0	0	0
18	19 MON VHF-2 COMM AUDIO	1	3.20	0	0	0	0	0	0	0	0	0
		2	7.00	0	0	0	0	0	0	0	0	0
		3	6.20	0	0	0	0	0	0	0	0	0
		4	10.00	0	0	0	0	0	0	0	0	0
18	20 MON VHF-2 COMM AUDIO	1	5.00	0	0	0	0	0	0	0	0	0
		2	5.50	0	0	0	0	0	0	0	0	0
		3	1.70	0	0	0	0	0	0	0	0	0
		4	3.00	0	0	0	0	0	0	0	0	0
18	21 SET COMM 2 BOOM/OXY SW TO BOOM	1	1.40	0	100	100	0	0	0	20	0	0
		2	1.47	0	100	100	0	0	0	20	0	0
		3	1.50	0	100	0	100	0	0	20	0	0
		4	2.42	0	100	100	0	0	0	20	0	0
18	22 SET COMM 2 BOOM/OXY SW TO OXY	1	1.40	0	100	0	0	0	0	20	0	0
		2	1.47	0	100	0	0	0	0	20	0	0
		3	1.50	0	100	0	0	0	0	20	0	0
		4	2.42	0	100	0	0	0	0	20	0	0
18	23 ADJ COMM 2 MIC VOL	1	1.97	0	10	100	0	0	0	20	0	0
		2	2.64	0	10	0	100	0	0	20	0	0
18	24 ACT PUSH-TO-TALK SW ON CONTROL HANDGRIP	1	4.50	0	0	0	100	0	0	20	0	0
		2	2.80	0	0	0	100	0	0	20	0	0
		3	6.20	0	0	0	100	0	0	20	0	0
		4	3.50	0	0	0	100	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
1B	25	ACT PUSH-TO-TALK SW ON CONTROL HANDGRIP	1	5.00	0	0	0	100	0	0	20	0	0
			2	4.00	0	0	0	100	0	0	20	0	0
			3	6.00	0	0	0	100	0	0	20	0	0
			4	4.20	0	0	0	100	0	0	20	0	0
1B	26	ACT PUSH-TO-TALK SW ON CONTROL HANDGRIP	1	7.00	0	0	0	100	0	0	20	0	0
			2	3.00	0	0	0	100	0	0	20	0	0
			3	10.00	0	0	0	100	0	0	20	0	0
			4	7.50	0	0	0	100	0	0	20	0	0
1B	28	ACTUATE COMM 2 PUSH- TO-TALK SW	1	5.00	0	0	0	100	0	0	20	0	0
			2	6.00	0	0	0	100	0	0	20	0	0
			3	4.00	0	0	0	100	0	0	20	0	0
			4	4.25	0	0	0	100	0	0	20	0	0
1B	29	ACTUATE COMM 2 PUSH- TO-TALK SW	1	1.70	0	0	0	100	0	0	20	0	0
			2	3.50	0	0	0	100	0	0	20	0	0
			3	1.50	0	0	0	100	0	0	20	0	0
			4	3.00	0	0	0	100	0	0	20	0	0
1B	32	COMM VIA VHF-2	1	4.20	0	0	0	0	0	0	0	0	0
			2	3.00	0	0	0	0	0	0	0	0	0
			3	10.00	0	0	0	0	0	0	0	0	0
			4	7.50	0	0	0	0	0	0	0	0	0
1B	33		1	4.20	0	0	0	0	0	0	0	0	
1B	34		1	4.20	0	0	0	0	0	0	0	0	
1B	35		1	4.20	0	0	0	0	0	0	0	0	
1B	36	MONITOR VHF-2 COMM AUDIO	1	11.00	0	0	0	0	0	0	0	0	0
			2	2.00	0	0	0	0	0	0	0	0	0
			3	12.00	0	0	0	0	0	0	0	0	0
			4	6.20	0	0	0	0	0	0	0	0	0
1B	37	MONITOR VHF-2 COMM AUDIO	1	16.00	0	0	0	0	0	0	0	0	0
			2	4.00	0	0	0	0	0	0	0	0	0
			3	15.00	0	0	0	0	0	0	0	0	0
			4	3.70	0	0	0	0	0	0	0	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1F	01	MON COCKPIT CALL CHIME	1	1.00	0	0	0	0	0	20	100	0
1F	02	MON COCKPIT CALL ANNUN LT ON	1	.71	0	100	0	0	0	20	0	0
1F	03	ACT ATTENDANT CALL SW	1	2.35	0	100	0	100	0	0	20	0
1F	04	SET SERVICE INTPHN SW TO ON	1	2.92	0	100	0	100	0	0	20	0
1F	05	SET SERVICE INTPHN SW TO OFF	1	2.92	0	100	0	100	0	0	20	0
1F	06	SET COMM 2 MIC SEL SW TO INT	1	2.86	0	100	100	0	0	0	20	0
			2	2.92	0	100	0	100	0	0	20	0
			3	1.99	0	100	0	100	0	0	20	0
1F	07	SET COMM 2 INT COMM RECVR SW TO ON	1	2.44	0	100	0	100	0	0	20	0
			2	1.55	0	100	100	0	0	0	20	0
			3	2.34	0	100	100	0	0	0	20	0
1F	08	SET COMM 2 INT COMM RECVR SW TO OFF	1	2.44	0	100	0	100	0	0	20	0
			2	1.55	0	100	100	0	0	0	20	0
			3	2.34	0	100	100	0	0	0	20	0
1F	09	MON INT COMM AUDIO	1	.80	0	0	0	0	0	0	0	0
			2	.90	0	0	0	0	0	0	0	0
			3	1.50	0	0	0	0	0	0	0	0
1F	10	MON INT COMM AUDIO	1	.80	0	0	0	0	0	0	0	0
1F	11	INTPHN COMM	1	1.40	0	0	0	0	0	0	0	0
			2	1.30	0	0	0	0	0	0	0	0
			3	1.30	0	0	0	0	0	0	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL	
16	C1 SET COMM 2 PA COMM RECVR SW TO ON	1	1.41	0	100	0	100	0	0	20	0	0	
		2	1.45	0	100	0	100	0	0	20	0	0	
16	C2 SET COMM 2 PA COMM RECVR SW TO OFF	1	1.41	0	100	100	0	0	0	20	0	0	
		2	1.97	0	100	0	100	0	0	20	0	0	
16	C3 SET COMM 2 MIC SEL SW TO PA	1	2.32	0	100	0	100	0	0	20	0	0	
		2	2.92	0	100	0	100	0	0	20	0	0	
		3	1.99	0	100	0	100	0	0	20	0	0	
16	C4 ACTUATE HANDMIKE SW FOR PUBLIC ADDRESS ANNOUNCEMENT	1	2.32	0	100	0	100	0	0	20	0	0	
16	C6 PICK UP PA HANDMIKE	1	3.08	0	100	100	0	0	0	20	0	0	
		2	2.58	0	100	0	100	0	0	20	0	0	
		3	5.06	0	100	0	100	0	0	20	0	0	
16	C7 RETURN PA HANDMIKE TO CRADLE	1	3.08	0	100	100	0	0	0	20	0	0	
		2	2.58	0	100	0	100	0	0	20	0	0	
		3	5.06	0	100	0	100	0	0	20	0	0	
16	C8 SET COMM 2 PA COMM RECVR SW TO ON	1	1.41	0	100	100	0	0	0	20	0	0	
16	C9 SET COMM 2 PA COMM RECVR SW TO OFF	1	1.41	0	100	100	0	0	0	20	0	0	
16	C10 SET COMM 2 MIC SEL SW TO PA	1	2.86	0	100	100	0	0	0	20	0	0	
16	C11 PRESS COMM 2 PRESS- TO-TALK SW FOR PA	1	1.42	0	100	100	0	0	0	20	0	0	
		2	1.42	0	100	0	100	0	0	20	0	0	

TASK CODE NO.		TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
					EV	IV	LH	RH	LF	RF	COG	AUD	VBL
14	01	ACTUATE GRD CALL SW	1	2.37	0	100	0	100	0	0	20	0	0
			2	2.37	0	100	100	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
14	01 ACTUATE VOICE REC TEST SW	1	1.49	0	100	100	0	0	0	0	20	0	0
14	02 MON VOICE REC	1	2.03	0	100	0	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1M 01	MON VHF 1 SELCAL LT ON	1	.53	0	100	0	0	0	0	20	0	0
		2	1.05	0	100	0	0	0	0	20	0	0
1M 02	MON VHF 2 SELCAL LT ON	1	1.71	0	100	0	0	0	0	20	0	0
		2	1.05	0	100	0	0	0	0	20	0	0
1M 03	MONITOR SELCAL CHIME	1	1.00	0	0	0	0	0	0	20	100	0
1M 04	COMM VIA SELCAL	1	1.00	0	0	0	0	0	0	20	100	0
1M 05	PUSH VHF 1 SELCAL TEST/RESET SW	1	2.22	0	100	0	100	0	0	20	0	0
		2	2.30	0	100	100	0	0	0	20	0	0
1M 06	PUSH VHF 2 SELCAL TEST/RESET SW	1	2.22	0	100	100	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL	
1N	01 SET ATC FUNCTION SEL SW TO OFF	1	1.93	0	100	100	0	0	0	20	0	0	
1N	02 SET ATC FUNCTION SEL SW TO STDBY	1	1.93	0	100	100	0	0	0	20	0	0	
		2	1.93	0	100	0	100	0	0	20	0	0	
1N	03 SET ATC FUNCTION SEL SW TO EM	1	1.93	0	100	100	0	0	0	20	0	0	
1N	04 SET ATC FUNCTION SEL SW TO LG SENS	1	1.93	0	100	100	0	0	0	20	0	0	
1N	05 SET ATC IDENT CODE	1	2.60	0	10	100	0	0	0	20	0	0	
		2	2.04	0	10	100	0	0	0	20	0	0	
1N	06 MON IDENT CODE INDIC	1	.77	0	100	0	0	0	0	20	0	0	
		2	2.04	0	90	0	0	0	0	20	0	0	
		3	2.80	0	90	0	0	0	0	20	0	0	
1N	07 PRESS ATC IDENT SW	1	2.14	0	50	100	0	0	0	20	0	0	
		2	1.41	0	50	100	0	0	0	20	0	0	
1N	08 SET ATC MODE SEL SW TO A	1	2.61	0	100	100	0	0	0	20	0	0	
1N	09 SET ATC MODE SEL SW TO B	1	2.61	0	100	100	0	0	0	20	0	0	
1N	10 SET ATC MODE SEL SW TO C	1	2.61	0	100	100	0	0	0	20	0	0	
1N	11 SET ATC MODE SEL SW TO D	1	2.61	0	100	100	0	0	0	20	0	0	
1N	12 SET ATC TRANSPONDER SEL TO NO.1	1	1.93	0	100	100	0	0	0	20	0	0	
1N	13 SET ATC TRANSPONDER SEL TO NO.2	1	1.93	0	100	100	0	0	0	20	0	0	
1N	14 SET ATC ALT REPTG SOURCE SW TO NO.1	1	1.57	0	100	100	0	0	0	20	0	0	
1N	15 SET ATC ALT REPTG SOURCE SW TO NO.2	1	1.57	0	100	100	0	0	0	20	0	0	
1N	16 SET ATC TEST SW TO TEST	1	1.50	0	100	100	0	0	0	20	0	0	
1N	17 SET ATC TEST SW TO MONITOR	1	1.50	0	0	100	0	0	0	20	0	0	



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1N	18 MON ATC TEST LT ON	1	1.50	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME										
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL		
1P	01	MONITOR INSTRUCTIONS	1	1.50	0	100	0	0	0	20	0	0		
1P	02	MONITOR CALL-OUT	1	1.50	0	0	0	0	0	20	100	0		
			2	2.00	0	0	0	0	0	20	100	0		
			3	3.00	0	0	0	0	0	20	100	0		
			4	1.30	0	0	0	0	0	20	100	0		
1P	03	ACKNOWLEDGE	1	.50	0	0	0	0	0	20	0	100		
1P	04	MONITOR REPORT	1	.50	0	0	0	0	0	20	0	100		
1P	05	MONITOR RESPONSE	1	.50	0	0	0	0	0	20	0	100		
1P	06	MONITOR REPORT	1	2.50	0	0	0	0	0	20	100	0		
			2	6.00	0	0	0	0	0	20	100	0		
			3	1.00	0	0	0	0	0	20	100	0		
			4	.50	0	0	0	0	0	20	100	0		
1P	07	MONITOR REPORT	1	4.50	0	0	0	0	0	20	100	0		
			2	.70	0	0	0	0	0	20	100	0		
			3	2.30	0	0	0	0	0	20	100	0		
			4	.80	0	0	0	0	0	20	100	0		
1P	08	MONITOR REPORT	1	.90	0	0	0	0	0	20	100	0		
			2	1.60	0	0	0	0	0	20	100	0		
			3	1.20	0	0	0	0	0	20	100	0		
			4	.60	0	0	0	0	0	20	100	0		
1P	09	MONITOR REPORT	1	1.30	0	0	0	0	0	20	100	0		
			2	1.40	0	0	0	0	0	20	100	0		
			3	10.00	0	0	0	0	0	20	100	0		
			4	1.90	0	0	0	0	0	20	100	0		
1P	10	MONITOR CALL-OUT	1	1.00	0	0	0	0	0	20	100	0		
			2	.70	0	0	0	0	0	20	100	0		
			3	1.20	0	0	0	0	0	20	100	0		
			4	.60	0	0	0	0	0	20	100	0		
1P	11	MONITOR CALL-OUT	1	.50	0	0	0	0	0	20	100	0		
			2	.80	0	0	0	0	0	20	100	0		
			3	.90	0	0	0	0	0	20	100	0		
			4	1.70	0	0	0	0	0	20	100	0		
1P	12	MONITOR CALL-OUT	1	2.50	0	0	0	0	0	20	100	0		
			2	1.40	0	0	0	0	0	20	100	0		
			3	2.20	0	0	0	0	0	20	100	0		
			4	1.10	0	0	0	0	0	20	100	0		
1P	13	MONITOR CALL-OUT	1	2.30	0	0	0	0	0	20	100	0		
			2	2.40	0	0	0	0	0	20	100	0		
			3	2.50	0	0	0	0	0	20	100	0		
			4	1.80	0	0	0	0	0	20	100	0		

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P 14	MONITOR CALL-OUT	1	1.90	0	0	0	0	0	0	20	100	0
		2	.40	0	0	0	0	0	0	20	100	0
		3	1.60	0	0	0	0	0	0	20	100	0
		4	2.10	0	0	0	0	0	0	20	100	0
1P 15	MONITOR CALL-OUT	1	2.70	0	0	0	0	0	0	20	100	0
		2	3.70	0	0	0	0	0	0	20	100	0
		3	4.20	0	0	0	0	0	0	20	100	0
		4	3.20	0	0	0	0	0	0	20	100	0
1P 16	MONITOR REPORT	1	.40	0	0	0	0	0	0	20	100	0
		2	.30	0	0	0	0	0	0	20	100	0
		3	3.00	0	0	0	0	0	0	20	100	0
		4	1.50	0	0	0	0	0	0	20	100	0
1P 17	MONITOR REPORT	1	3.50	0	0	0	0	0	0	20	100	0
		2	3.70	0	0	0	0	0	0	20	100	0
		3	4.00	0	0	0	0	0	0	20	100	0
		4	2.00	0	0	0	0	0	0	20	100	0
1P 18	MONITOR REPORT	1	1.10	0	0	0	0	0	0	20	100	0
1P 19	MONITOR CALL OUT	1	4.00	0	0	0	0	0	0	20	100	0
		2	1.50	0	0	0	0	0	0	20	100	0
1P 20	MONITOR REPORT	1	2.00	0	0	0	0	0	0	20	100	0
1P010001	CALL OUT-[COMPASS HDG IS XXX DEGREES]	1	2.50	0	0	0	0	0	0	20	0	100
1P010002	CALL OUT-[ALTITUDE SETTING IS XXXX]	1	2.50	0	0	0	0	0	0	20	0	100
1P010003	CALL OUT-[SET VI TO XXX KNOTS AND VR TO XXX KNOTS]	1	6.00	0	0	0	0	0	0	20	0	100
1P010004	CALL OUT-[WHAT IS THE EPR SETTING]	1	1.50	0	0	0	0	0	0	20	0	100
1P010005	CALL OUT-[SET EPR AT XXX]	1	2.50	0	0	0	0	0	0	20	0	100
1P010006	CALL OUT - [BEFORE START CHECKLIST]	1	2.00	0	0	0	0	0	0	20	0	100
1P010007	CALL OUT - [INTERIOR AND EXTERIOR PRE-FLIGHT CHECK]	1	3.00	0	0	0	0	0	0	20	0	100
1P010008	CALL OUT - [COMPLETE]	1	1.00	0	0	0	0	0	0	20	0	100
1P010009	CALL OUT - [LIGHT TEST]	1	1.30	0	0	0	0	0	0	20	0	100
1P010010	CALL OUT - [CHECKED]	1	1.00	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1PC10011	CALL OUT - [OXYGEN AND INTERPHONE]	1	1.30	0	0	0	0	0	0	0	0	0
1PC10012	CALL OUT - [CHECKED]	1	1.00	0	0	0	0	0	0	20	0	100
1PC10013	CALL OUT - [YAW DAM- PER ]	1	1.00	0	0	0	0	0	0	20	0	100
1PC10014	CALL OUT - [ON]	1	.50	0	0	0	0	0	0	20	0	100
1PC10015	CALL OUT - [FUEL]	1	.50	0	0	0	0	0	0	20	0	100
1PC10016	CALL OUT - [XXX LBS, OK FOR DISPATCH, ALL PUMPS ON]	1	4.50	0	0	0	0	0	0	20	0	100
1PC10017	CALL OUT - [GALLEY POWER ]	1	.70	0	0	0	0	0	0	20	0	100
1PC10018	CALL OUT - [EMERG EXT LTS]	1	1.20	0	0	0	0	0	0	20	0	100
1PC10019	CALL OUT - [ARMED]	1	.60	0	0	0	0	0	0	20	0	100
1PC10020	CALL OUT - [SEAT BELT AND NO SMOKING LTS]	1	2.00	0	0	0	0	0	0	20	0	100
1PC10021	CALL OUT - [AUTO]	1	.50	0	0	0	0	0	0	20	0	100
1PC10022	CALL OUT - [HYDRAU- LICS]	1	1.00	0	0	0	0	0	0	20	0	100
1PC10023	CALL OUT - [AIR CON- DITIONING AND PRES- SURIZATION]	1	2.00	0	0	0	0	0	0	20	0	100
1PC10024	CALL OUT - [1 PACK, BLEEDS (N, SFT)]	1	2.30	0	0	0	0	0	0	20	0	100
1PC10025	CALL OUT - [AUTO- PILOT]	1	.50	0	0	0	0	0	0	20	0	100
1PC10026	CALL OUT - [NORMAL]	1	.70	0	0	0	0	0	0	20	0	100
1PC10027	CALL OUT - [EISEN- GAGED]	1	.80	0	0	0	0	0	0	20	0	100
1PC10028	CALL OUT - [INSTRU- MENTS]	1	.80	0	0	0	0	0	0	20	0	100
1PC10029	CALL OUT - [CROSS- CHECKED]	1	1.00	0	0	0	0	0	0	20	0	100
1PC10030	CALL OUT - [ANTI-SKID	1	.90	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME						DUR TIME		
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P010031	CALL OUT -[AUTO BRAKES]	1	.90	0	0	0	0	0	0	20	0	100
1P010032	CALL OUT-[OFF]	1	.50	0	0	0	0	0	0	20	0	100
1P010033	CALL OUT -[RADIOS, RADAR, AND TRANS- PONDER]	1	2.00	0	0	0	0	0	0	20	0	100
1P010034	CALL OUT- [SET AND STANDBY]	1	1.20	0	0	0	0	0	0	20	0	100
1P010035	CALL OUT -[SPEED BRAKE]	1	.80	0	0	0	0	0	0	20	0	100
1P010036	CALL OUT -[DOWN DETENT]	1	1.00	0	0	0	0	0	0	20	0	100
1P010037	CALL OUT -[PARKING BRAKE]	1	.70	0	0	0	0	0	0	20	0	100
1P010038	CALL OUT -[SET]	1	.50	0	0	0	0	0	0	20	0	100
1P010039	CALL OUT -[STAB TRIM CUTOFF SWITCHES]	1	1.70	0	0	0	0	0	0	20	0	100
1P010040	CALL OUT -[WHEEL WELL FIRE WARNING]	1	2.00	0	0	0	0	0	0	20	0	100
1P010041	CALL OUT -[RUDDER AND AILERON TRIM]	1	1.50	0	0	0	0	0	0	20	0	100
1P010042	CALL -[ZERO]	1	.70	0	0	0	0	0	0	20	0	100
1P010043	CALL OUT -[PAPERS]	1	.80	0	0	0	0	0	0	20	0	100
1P010044	CALL OUT -[ABDARD]	1	.70	0	0	0	0	0	0	20	0	100
1P010045	CALL OUT -[ZFW, EPR, AND IAS BUGS]	1	2.50	0	0	0	0	0	0	20	0	100
1P010046	CALL OUT -[AIRCON- DITIGNING PACK]	1	1.30	0	0	0	0	0	0	20	0	100
1P010047	CALL OUT -[PACKS OFF]	1	.90	0	0	0	0	0	0	20	0	100
1P010048	CALL OUT -[START PRESSURE]	1	.90	0	0	0	0	0	0	20	0	100
1P010049	CALL OUT -[XXX PSI]	1	1.60	0	0	0	0	0	0	20	0	100
1P010050	CALL OUT -[ANTI-CUL- LISSIGN LT]	1	1.20	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P010051	CALL OUT -[BEFORE START CHECKLIST COMPLETED]	1	1.70	0	0	0	0	0	0	20	0	100
1P010052	CALL OUT -[CONTINUE BELOW THE LINE]	1	1.70	0	0	0	0	0	0	20	0	100
1P010053	INFORM GROUND CREW [READY FOR PUSHBACK]	1	1.40	0	0	0	0	0	0	20	0	100
1P010054	GROUND CREW REPORTS [PAGER]	1	.80	0	0	0	0	0	0	20	0	100
1P010055	RADIO COMM -[CLEAR- ANCE DELIVERY, THIS IS NASA 515 AT GATE X, IFP TO WASH NATL]	1	5.00	0	0	0	0	0	0	20	0	100
1P010056	MEN RADIO COMM-[NASA 515, IFP TO WASHING- TON NATIONAL, CLEARD AS FILED. CLIMB AND	1	4.26	0	0	0	0	0	0	20	100	0
1P010057	MAINTAIN FIVE THOU- SAND FEET, NOISE ABATEMENT PROCEDURES ARE IN EFFECT. CON-	1	1.68	0	0	0	0	0	0	20	100	0
1P010058	TACT ATLANTA DEPAR TURE ON ONE TWO FIVE POINT SEVEN, SQUAWK TWO TWO ONE POINT	1	5.25	0	0	0	0	0	0	20	100	0
1P010059	THREE, OVER]	1	1.42	0	0	0	0	0	0	20	100	0
1P010060	RADIO COMM -[NASA 515, ROGER, CLEARED AS FILED, MAINTAIN FIVE THOUSAND, NOISE	1	3.66	0	0	0	0	0	0	20	0	100
1P010061	ABATEMENT PROCEDURES IN EFFECT. CONTACT ATLANTA DEPARTURE ON ONE TWO FIVE POINT]	1	4.68	0	0	0	0	0	0	20	0	100
1P010062	MEN RADIO COMM- [NASA 515, CLEARANCE CORRECT. CONTACT GROUND CONTROL ON	1	2.50	0	0	0	0	0	0	20	100	0
1P010063	ONE TWO ONE POINT NINE WHEN READY TO TAXI]	1	2.50	0	0	0	0	0	0	20	100	0
1P010064	RADIO COMM-[NASA 515, ROGER]	1	1.70	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1PC10065	MON RADIO COMM- [INFORMATION KILO+ ONE SIX ONE ZERO OB- SERVATION, 3000	1	4.08	0	0	0	0	0	0	20	100	0
1PC10066	SCATTERED, CEILING 5000 BROKEN, VISIBI- LITY TWO THREE, TEM- PERATURE FIVE NINER,	1	5.44	0	0	0	0	0	0	20	100	0
1PC10067	WIND ONE ONE FIVE DEGREES AT SEVEN GUSTING TO ONE SIX, ALTITUDE TWO NINER	1	5.44	0	0	0	0	0	0	20	100	0
1PC10068	EIGHT SIX. LANDINGS RUNWAYS ZERO EIGHT, NINER EIGHT. DEPAR- TURES RUNWAYS ZERO	1	5.44	0	0	0	0	0	0	20	100	0
1PC10069	EIGHT, NINER LEFT. NOISE ABATEMENT PRO- CEDURES ARE IN EF- FECT. ADVISE CON-	1	5.44	0	0	0	0	0	0	20	100	0
1PC10070	RADIO COMM -[ATLANTA GROUND CONTROL, THIS IS NASA 515 AT GATE X, REQUEST PERMIS-	1	4.00	0	0	0	0	0	0	20	0	100
1PC10071	SIGN TO PUSHBACK. WE HAVE INFORMATION KILO, OVER]	1	2.00	0	0	0	0	0	0	20	0	100
1PC10072	MON RADIO COMM- [NASA 515, ATLANTA GROUND, ROGER. CLEAR TO PUSHBACK. ADVISE	1	4.50	0	0	0	0	0	0	20	100	0
1PC10073	SEVEN, SQUAWK TWO TWO ONE THREE, OVER]	1	2.44	0	0	0	0	0	0	20	0	100
1PC10074	TROUBLE IN INITIAL CONTACT YOU HAVE INFORMATION KILO ]	1	4.08	0	0	0	0	0	0	20	100	0
1PC10075	WHEN READY TO TAXI, OVER.]	1	1.50	0	0	0	0	0	0	20	100	0
1PC10076	MON INTRP COMM - [ALL CLEAR]	1	.90	0	0	0	0	0	0	20	100	0
1PC20011	MON RADIO COMM - [ATC CLEARS NASA 515 AS FILED. SQULE 9L DEPARTURE, ROUTE JAY	1	4.00	0	0	0	0	0	0	20	100	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
1P020002	EIGHT ONE SIX R JASON ONE STAR. CLIMB AND MAINTAIN FLIGHT LEVEL THREE	1	9.00	0	0	0	0	0	0	20	100	0
1P020003	THREE ZERO. CONTACT ATLANTA DEPARTURE ON 125.7, SQUAWK 2213, OVER]	1	4.00	0	0	0	0	0	0	20	100	0
1P020004	RADIO COMM - [NASA 515, RUCR. CLEARED AS FILED. SDCLE 9L DEPARTURE, ROUTE JAY	1	4.00	0	0	0	0	0	0	20	0	100
1P020005	EIGHT ONE SIX R, JASON ONE STAR. CLIMB AND MAINTAIN FLIGHT LEVEL THREE	1	4.00	0	0	0	0	0	0	20	0	100
1P020006	THREE ZERO. DEPARTURE ON 125.7, SQUAWK 2213, OVER.]	1	4.00	0	0	0	0	0	0	20	0	100
1P020007	CALL OUT-[FLIGHT PLAN ENTERED AND CHECKED]	1	2.00	0	0	0	0	0	0	20	0	100
1P020008	CALL OUT-[EADII]	1	1.00	0	0	0	0	0	0	20	0	100
1P020009	CALL OUT -[IGN AND CHECKED]	1	1.00	0	0	0	0	0	0	20	0	100
1P020010	CALL OUT -[MFED]	1	.60	0	0	0	0	0	0	20	0	100
1P020011	CALL OUT -[NCDU]	1	1.00	0	0	0	0	0	0	20	0	100
1P020012	CALL OUT- [AGCS]	1	1.00	0	0	0	0	0	0	20	0	100
1P020013	CALL OUT-[ATT CWS]	1	1.20	0	0	0	0	0	0	20	0	100
1P030001	MON INTERN COMM - [ALL CLEAR]	1	.90	0	0	0	0	0	0	20	100	0
1P030002	INTPHN COMM - [STARTING NO.2]	1	1.30	0	0	0	0	0	0	20	0	100
1P030003	INTPHN COMM - [STARTING NO.1]	1	1.30	0	0	0	0	0	0	20	0	100
1P030004	CALL OUT -[AFTER START CHECKLIST]	1	1.50	0	0	0	0	0	0	20	0	100
1P030005	CALL OUT -[ELECTRI- CAL]	1	.80	0	0	0	0	0	0	20	0	100



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P030006	CALL OUT- [GENERAL- TORS ON]	1	1.20	0	0	0	0	0	0	20	0	100
1P030007	CALL OUT -[PITOT HEAT]	1	.90	0	0	0	0	0	0	20	0	100
1P030008	CALL OUT- [ANTI-ICE]	1	.90	0	0	0	0	0	0	20	0	100
1P030009	CALL OUT -[NOT REQD]	1	1.00	0	0	0	0	0	0	20	0	100
1P030010	CALL OUT-[AIR CONDI- TIONING AND PRESSU- RIZATION]	1	1.60	0	0	0	0	0	0	20	0	100
1P030011	CALL OUT-[PACKS ON, FLT]	1	1.30	0	0	0	0	0	0	20	0	100
1P030012	CALL OUT -[START SWITCHES]	1	.90	0	0	0	0	0	0	20	0	100
1P030013	CALL OUT -[FLT]	1	.60	0	0	0	0	0	0	20	0	100
1P030014	CALL OUT -[APU]	1	.80	0	0	0	0	0	0	20	0	100
1P030015	CALL OUT -[OFF]	1	.50	0	0	0	0	0	0	20	0	100
1P030016	CALL OUT -[START LEVERS]	1	1.00	0	0	0	0	0	0	20	0	100
1P030017	CALL OUT -[OFF]	1	.50	0	0	0	0	0	0	20	0	100
1P030018	CALL OUT-[CHECKLIST COMPLETED]	1	1.40	0	0	0	0	0	0	20	0	100
1P040001	MON RADIO COMM - [NASA 515, CROSS RUNWAY ZERO EIGHT, OVER]	1	3.00	0	0	0	0	0	0	20	100	0
1P040002	RADIO COMM -[NASA 515, ROGER]	1	1.70	0	0	0	0	0	0	20	0	100
1P040003	MON RADIO COMM- [NASA 515, HOLD SHORT OF NEXT INTER- SECTION, CLEARED]	1	3.00	0	0	0	0	0	0	20	100	0
1P0400031	BEHIND EASTERN TRI- JET, OVER]	1	2.00	0	0	0	0	0	0	20	100	0
1P0400032	MON RADIO COMM - [NASA 515, CONTACT ATLANTA TOWER ON ONE ONE NINE POINT	1	3.00	0	0	0	0	0	0	20	100	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1PC40033	FIVE, OVER.]	1	1.00	0	0	0	0	0	0	20	100	0
1PC40034	RADIO COMM -[NASA 515 ROGER, ONE ONE NINER POINT FIVE.]	1	3.60	0	0	0	0	0	0	20	0	100
1PC40035	RADIO COMM -[ATLANTA GROUND CONTROL, NASA 515 READY TO TAXI, OVER]	1	3.50	0	0	0	0	0	0	20	0	100
1PC40036	MON RADIO COMM - [NASA 515, TAXI TO RUNWAY NINER LEFT VIA NORTHEAST-SOUTH-	1	3.50	0	0	0	0	0	0	20	100	0
1PC40037	WEST TAXIWAY. HOLD SHORT OF RUNWAY ZERO EIGHT, OVER]	1	3.50	0	0	0	0	0	0	20	100	0
1PC40038	RADIO COMM -[NASA 515, ROGER. TAXI RUNWAY NINER LEFT, HOLD SHORT RUNWAY	1	3.70	0	0	0	0	0	0	20	0	100
1PC40039	ZERO EIGHT.]	1	1.25	0	0	0	0	0	0	20	0	100
1PC70001	CALL OUT -[80 KNOTS]	1	1.10	0	0	0	0	0	0	20	0	100
1PC70002	CALL OUT -[V1]	1	.90	0	0	0	0	0	0	20	0	100
1PC70003	CALL OUT -[VR]	1	.90	0	0	0	0	0	0	20	0	100
1PC70004	CALL OUT -[GEAR UP]	1	1.10	0	0	0	0	0	0	20	0	100
1PC70005	RADIO COMM -[ATLANTA TOWER, THIS IS NASA 515. READY FOR TAKE- OFF, RUNWAY NINER	1	3.60	0	0	0	0	0	0	20	0	100
1PC70006	LEFT, OVER]	1	1.20	0	0	0	0	0	0	20	0	100
1PC70007	MON RADIO COMM - [NASA 515, TAXI INTO POSITION AND HOLD, OVER]	1	2.50	0	0	0	0	0	0	20	100	0
1PC70008	RADIO COMM - [515, TAXI INTO POSITION AND HOLD, ROGER]	1	2.50	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								VBL
				EV	IV	LH	RH	LF	RF	COG	AUD	
1P070009	NON RADIO COMM - [NASA 515 CLEARED FOR IMMEDIATE TAKE- OFF]	1	2.50	0	0	0	0	0	0	20	100	0
1P070010	RADIO COMM -[515 ROLLING]	1	1.50	0	0	0	0	0	0	20	0	100
1P070011	CALL OUT -[TAKEDOFF FLAPS]	1	1.00	0	0	0	0	0	0	20	0	100
1P070012	CALL OUT -[BEFORE TAKEDOFF CHECKLIST]	1	1.50	0	0	0	0	0	0	20	0	100
1P070013	CALL OUT- [RECALL]	1	1.00	0	0	0	0	0	0	20	0	100
1P070014	CALL OUT-[CHECKED]	1	.80	0	0	0	0	0	0	20	0	100
1P070015	CALL OUT-[FLIGHT CONTROLS]	1	1.00	0	0	0	0	0	0	20	0	100
1P070016	CALL OUT-[FLAPS]	1	.60	0	0	0	0	0	0	20	0	100
1P070017	CALL OUT -[15, GREEN LIGHT]	1	1.00	0	0	0	0	0	0	20	0	100
1P070018	CALL OUT-[STABILIZER TRIM]	1	1.20	0	0	0	0	0	0	20	0	100
1P070019	CALL OUT-[COCKPIT DOOR]	1	1.00	0	0	0	0	0	0	20	0	100
1P070020	CALL OUT-[LOCKED]	1	.70	0	0	0	0	0	0	20	0	100
1P070021	CALL OUT-[TAKEDOFF BRIEFING]	1	1.00	0	0	0	0	0	0	20	0	100
1P070022	CALL OUT-[FLY RUN- WAY HEADING UNTIL CROSSING RUNWAY 27R MIDDLE MARKER. TURN	1	4.50	0	0	0	0	0	0	20	0	100
1P070023	TO HEADING 105 AND CLIMB AND MAINTAIN 5000. EXPECT VECTORS AFTER NEW HEADING]	1	5.50	0	0	0	0	0	0	20	0	100
1P070024	CALL OUT-[ROGLER]	1	.60	0	0	0	0	0	0	20	0	100
1P070025	CALL OUT-[TRANSPON- DER AND RADAR]	1	1.50	0	0	0	0	0	0	20	0	100
1P070026	CALL OUT- [GN]	1	.50	0	0	0	0	0	0	20	0	100
1P070027	CALL OUT-[INBOARD LANDING LIGHTS]	1	1.50	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P070028	CALL OUT-[BEFORE TAKEOFF CHECKLIST COMPLETE]	1	2.20	0	0	0	0	0	0	20	0	100
1P070029	CALL OUT-[XX UNITS]	1	1.40	0	0	0	0	0	0	20	0	100
1P070030	CALL OUT -[TRANSPON- DER]	1	.70	0	0	0	0	0	0	20	0	100
1P070031	CALL OUT -[AGCS]	1	1.10	0	0	0	0	0	0	20	0	100
1P070032	CALL OUT -[ATT CWS]	1	1.10	0	0	0	0	0	0	20	0	100
1P090001	MON RADIO COMM - [NASA 515, CONTACT ATLANTA DEPARTURE ON ONE TWO FIVE POINT	1	4.50	0	0	0	0	0	0	20	100	0
1P090002	RADIO COMM -[NASA 515, ROGER]	1	1.70	0	0	0	0	0	0	20	0	100
1P090003	RADIO COMM -[ATLANTA DEPARTURE CONTROL, THIS IS NASA 515, OVER]	1	3.50	0	0	0	0	0	0	20	0	100
1P090005	MON RADIO COMM- [NASA 515, ATLANTA DEPARTURE, ROGER. SQUAWK IDENT]	1	2.50	0	0	0	0	0	0	20	100	0
1P090006	MON RADIO COMM - [NASA 515, RADAR CONTACT, SAY ALTI- TUDS, OVER]	1	3.20	0	0	0	0	0	0	20	100	0
1P090007	RADIO COMM -[NASA 515, LEAVING ONE EIGHT HUNDRED]	1	2.30	0	0	0	0	0	0	20	0	100
1P090008	MON RADIO COMM- [NASA 515, CLIMB AND MAINTAIN FLIGHT LVL 230. CONTACT ATLANTA	1	3.10	0	0	0	0	0	0	20	100	0
1P090009	CENTER ON ONE TWO THREE POINT NINE FIVE, [OVER]	1	3.10	0	0	0	0	0	0	20	100	0
1P090010	RADIO COMM -[515, ROGER. CLIMB AND MAINTAIN FLIGHT LEVEL TWO THREE ZERO	1	3.50	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1PC90011	, CONTACT CENTER ON ONE TWO THREE POINT NINER FIVE, GOOD DAY]	1	3.50	0	0	0	0	0	0	20	0	100
1PC90012	RADIO COMM - ATLANTA CENTER, THIS IS NASA 515 OUT OF 11000 FOR FL230,	1	.45	0	0	0	0	0	0	20	0	100
1PC90013	OVER]	1	.50	0	0	0	0	0	0	20	0	100
1PC90014	MON RADIO COMM - [NASA 515, THIS IS ATLANTA CENTER, ROGER. SQUAWK IDENT]	1	3.50	0	0	0	0	0	0	20	100	0
1PC90015	MON RADIO COMM - [NASA 515, RADAR CONTACT. REPORT LEAVING FL210, OVER]	1	2.50	0	0	0	0	0	0	20	100	0
1PC90016	RADIO COMM - [NASA 515, RAGLER. REPORT FLIGHT LEVEL TWO ONE ZERO]	1	3.50	0	0	0	0	0	0	20	0	100
1PC90017	CALL OUT- [AFTER TAKEOFF CHECKLIST]	1	1.20	0	0	0	0	0	0	20	0	100
1PC90018	CALL OUT- [START SWITCHES]	1	.90	0	0	0	0	0	0	20	0	100
1PC90019	CALL OUT- -[OFF]	1	.50	0	0	0	0	0	0	20	0	100
1PC90020	CALL OUT -[LANDING GEAR]	1	.50	0	0	0	0	0	0	20	0	100
1PC90021	CALL OUT-[UP AND OFF]	1	1.00	0	0	0	0	0	0	20	0	100
1PC90022	CALL OUT -[FLAPS]	1	.60	0	0	0	0	0	0	20	0	100
1PC90023	CALL OUT -[AFTER TAKEOFF CHECKLIST COMPLETE]	1	1.90	0	0	0	0	0	0	20	0	100
1PC90024	SEVEN, GOOD-DAY SIR]	1	1.50	0	0	0	0	0	0	20	100	0
1PC90025	MON RADIO COMM - [NASA 515, FOR VEC- TOR TO INTERCEPT JAY THIRTY SEVEN, TURN	1	3.00	0	0	0	0	0	0	20	100	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P090026	LEFT HEADING ZERO SEVEN ZERO, CLIMB AND MAINTAIN NINER THOUSAND, OVER]	1	4.00	0	0	0	0	0	0	20	100	0
1P090027	RADIO COMM -[NASA 515, ROGER. LEFT HEADING ZERO SEVEN ZERO, MAINTAIN NINER	1	4.00	0	0	0	0	0	0	20	0	100
1P090028	THOUSAND.]	1	.50	0	0	0	0	0	0	20	0	100
1P090029	MON RADIO COMM - [NASA 515, CLIMB AND MAINTAIN ONE TWO THOUSAND, OVER]	1	3.50	0	0	0	0	0	0	20	100	0
1P090030	RADIO COMM - [NASA 515, ROGER. MAINTAIN ONE TWO THOUSAND]	1	2.80	0	0	0	0	0	0	20	0	100
1P090031	MON RADIO COMM - [NASA 515, MAINTAIN FLIGHT LEVEL ONE EIGHT ZERO. TRAFFIC	1	3.75	0	0	0	0	0	0	20	100	0
1P090032	TWELVE O'CLOCK, FOUR MILES, NORTHEAST BOUND, C-130 ASSIGNED FLIGHT LEVEL ONE	1	5.00	0	0	0	0	0	0	20	100	0
1P090033	NINER ZERO, OVER]	1	1.25	0	0	0	0	0	0	20	100	0
1P090034	RADIO COMM -[NASA 515, ROGER. MAINTAIN FLIGHT LEVEL ONE EIGHT ZERO. WE HAVE	1	4.00	0	0	0	0	0	0	20	0	100
1P090035	TRAFFIC IN SIGHT]	1	1.00	0	0	0	0	0	0	20	0	100
1P090036	MON RADIO COMM - [NASA 515, CLEAR OF TRAFFIC, CLIMB AND MAINTAIN FLIGHT	1	3.00	0	0	0	0	0	0	20	100	0
1P090037	LEVEL TWO THREE ZERO . REPORT LEAVING FLIGHT LEVEL TWO ONE ZERO, OVER]	1	4.00	0	0	0	0	0	0	20	100	0
1P090038	RADIO COMM - [NASA 515, ROGER. MAINTAIN TWO THREE ZERO. REPORT LEAVING TWO	1	3.50	0	0	0	0	0	0	20	0	100
1P090039	ONE ZERO.]	1	.50	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P090040	RADIO COMM -[ATLANTA CENTER, NASA 515. LEAVING FLIGHT LEVEL TWO ONE ZERO, OVER]	1	4.00	0	0	0	0	0	0	20	0	100
1P090041	MON RADIO COMM - [NASA 515, ROGER. CLIMB AND MAINTAIN FLIGHT LEVEL THREE	1	3.50	0	0	0	0	0	0	20	100	0
1P090042	ONE ZERO. CONTACT CENTER ON ONE THREE THREE POINT SEVEN, OVER]	1	3.50	0	0	0	0	0	0	20	100	0
1P090043	RADIO COMM -[NASA 515, ROGER. MAINTAIN FLIGHT LEVEL THREE ONE ZERO, CENTER ON	1	3.70	0	0	0	0	0	0	20	0	100
1P090044	ONE THREE THREE POINT SEVEN.]	1	2.30	0	0	0	0	0	0	20	0	100
1P090045	RADIO COMM -[ATLANTA CENTER, THIS IS NASA 515 OUT OF FLIGHT LEVEL TWO THREE ZERO	1	3.70	0	0	0	0	0	0	20	0	100
1P090046	FOR TWO NINER ZERO, OVER]	1	2.30	0	0	0	0	0	0	20	0	100
1P090047	MON RADIO COMM - [NASA 515, ATLANTA CENTER, ROGER. SQUAWK IDENT. REPORT	1	2.70	0	0	0	0	0	0	20	100	0
1P090048	LEAVING FLIGHT LEVEL TWO EIGHT ZERO, OVER]	1	3.30	0	0	0	0	0	0	20	100	0
1P090049	RADIO COMM -[NASA 515, ROGER. REPORT FLIGHT LEVEL TWO EIGHT ZERO.]	1	4.00	0	0	0	0	0	0	20	100	0
1P090050	RADIO COMM -[ATLANTA CENTER, NASA 515 LEAVING FLIGHT LEVEL TWO EIGHT ZERO,OVER]	1	4.00	0	0	0	0	0	0	20	0	100
1P090051	MON RADIO COMM- [NASA 515, ROGER. CLIMB AND MAINTAIN FLIGHT LEVEL TWO	1	3.50	0	0	0	0	0	0	20	100	0
1P090052	NINER ZERO, OVER]	1	1.50	0	0	0	0	0	0	20	100	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
1P090053	RADIO COMM -[NASA 515, ROGER. MAINTAIN FLIGHT LEVEL TWO NINER ZERO.]	1	4.00	0	0	0	0	0	0	20	0	100	
1P090054	MON RADIO COMM - [NASA 515, CLIMB AND MAINTAIN FLIGHT LVL THREE THREE ZERO.	1	3.50	0	0	0	0	0	0	20	100	0	
1P090055	CONTACT CENTER ON ONE THREE FOUR POINT FIVE FIVE, OVER]	1	3.50	0	0	0	0	0	0	20	100	0	
1P090056	RADIO COMM -[NASA 515, ROGER. MAINTAIN FLIGHT LEVEL THREE THREE ZERO, CENTER	1	4.00	0	0	0	0	0	0	20	0	100	
1P090057	ON ONE THREE FOUR POINT FIVE FIVE.]	1	2.00	0	0	0	0	0	0	20	0	100	
1P090058	RADIO COMM -[ATLANTA CENTER, NASA 515 LEAVING FLIGHT LEVEL TWO NINER ZERO FOR	1	4.00	0	0	0	0	0	0	20	0	100	
1P090059	FLIGHT LEVEL THREE THREE ZERO, OVER]	1	2.00	0	0	0	0	0	0	20	0	100	
1P090060	MON RADIO COMM - [NASA 515, ATLANTA CENTER, ROGER. SQUAWK IDENT	1	3.50	0	0	0	0	0	0	20	100	0	
1P090061	MON RADIO COMM - [NASA 515, RADAR CONTACT. REPORT LEVEL AT FLIGHT	1	3.50	0	0	0	0	0	0	20	100	0	
1P090062	LEVEL THREE THREE ZERO, OVER]	1	2.00	0	0	0	0	0	0	20	100	0	
1P090063	CALL OUT-[FLAPS 1]	1	.80	0	0	0	0	0	0	20	0	100	
1P090064	CALL OUT -[FLAPS ZERO]	1	.80	0	0	0	0	0	0	20	0	100	
1P090065	CALL OUT - [SPARTAMBURG VOR ON NAV 2]	1	2.50	0	0	0	0	0	0	20	0	100	
1P090066	CALL OUT - [GORDONSVILL VOR ON NAV 1]	1	2.50	0	0	0	0	0	0	20	0	100	



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1PC90067	CALL OUT - (ONE THOUSAND FEET TO LEVEL OFF)	1	1.70	0	0	0	0	0	0	20	0	100
1PC90068	RADIO COMM - (ATLANTA DEPARTURE, THIS IS NASA 515, OVER)	1	3.10	0	0	0	0	0	0	20	0	100
1PC90069	MON RADIO COMM - (NASA 515, CONTACT ATLANTA CENTER ON ONE TWO THREE POINT	1	4.00	0	0	0	0	0	0	20	100	0
1PC90070	NINER FIVE, OVER)	1	1.50	0	0	0	0	0	0	20	100	0
1PC90073	RADIO COMM - (NASA 515, ROGER. ONE TWO THREE POINT NINER FIVE.)	1	3.70	0	0	0	0	0	0	20	100	0
1PC90074	MON RADIO COMM - (NASA 515, ROGER. CONTACT CENTER ON ONE THREE THREE	1	4.00	0	0	0	0	0	0	20	100	0
1PC90075	POINT SEVEN, OVER)	1	1.00	0	0	0	0	0	0	20	100	0
1PC90076	RADIO COMM - (515, ROGER. ONE THREE THREE POINT SEVEN.)	1	3.10	0	0	0	0	0	0	20	0	100
1PC90077	RADIO COMM - (ATLANTA CENTER, THIS IS NASA 515 LEAVING FLIGHT LEVEL TWO ONE ZERO	1	3.40	0	0	0	0	0	0	20	0	100
1PC90078	FOR FLIGHT LEVEL THREE THREE ZERO, OVER.)	1	3.40	0	0	0	0	0	0	20	0	100
1PC90079	MON RADIO COMM - (NASA 515, MAINTAIN FLIGHT LEVEL TWO SIX ZERO. TRAFFIC AT	1	3.00	0	0	0	0	0	0	20	100	0
1PC90080	TWELVE O'CLOCK, FOUR MILES, NORTHEAST BOUND, C-130 ASSIGN- ED FLIGHT LEVEL TWO	1	4.20	0	0	0	0	0	0	20	100	0
1PC90081	SEVEN ZERO, OVER)	1	2.00	0	0	0	0	0	0	20	100	0
1PC90082	RADIO COMM - (515, ROGER. MAINTAIN FLIGHT LEVEL TWO SIX ZERO. WE HAVE TRAF-	1	3.30	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF OUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1PC90082	FIC IN SIGHT.]	1	1.10	0	0	0	0	0	0	20	0	100
1PC90084	MON RADIO COMM - [NASA 515, CLEAR OF TRAFFIC. CLIMB AND MAINTAIN FLIGHT LEV-	1	3.10	0	0	0	0	0	0	20	100	0
1PC90085	EL THREE THREE ZERO. REPORT LEAVING TWO EIGHT ZERO, OVER.]	1	3.10	0	0	0	0	0	0	20	100	0
1PC90086	RADIO COMM -[515, ROGER. MAINTAIN THREE THREE ZERO, REPORT LEAVING TWO	1	3.00	0	0	0	0	0	0	20	0	100
1PC90087	EIGHT ZERO.]	1	1.00	0	0	0	0	0	0	20	0	100
1PC90088	MON RADIO COMM - [NASA 515, CLIMB AND MAINTAIN FLIGHT LEV- EL THREE ONE ZERO,	1	3.00	0	0	0	0	0	0	20	100	0
1PC90089	OVER.]	1	.50	0	0	0	0	0	0	20	100	0
1PC90090	RADIO COMM - [515, ROGER. MAINTAIN FLIGHT LEVEL THREE ONE ZERO.]	1	3.00	0	0	0	0	0	0	20	0	100
1PC90091	RADIO COMM -[ATLANTA CENTER, NASA 515 LEAVING FLIGHT LEV- EL THREE ONE ZERO	1	3.00	0	0	0	0	0	0	20	0	100
1PC90092	FOR FLIGHT LEVEL THREE THREE ZERO, OVER.]	1	3.00	0	0	0	0	0	0	20	0	100
1PC90093	RADIO COMM -[ATLANTA CENTER, THIS IS NASA 515 OUT OF ELEVEN THOUSAND FOR FLIGHT	1	4.00	0	0	0	0	0	0	20	0	100
1PC90094	LEVEL THREE THREE ZERO, OVER.]	1	1.50	0	0	0	0	0	0	20	0	100
1PC90095	CALL OUT -[ALTIMETER BARO SETTING IS TWO NINE POINT NINE TWO]	1	3.00	0	0	0	0	0	0	20	0	100
1PC90096	CALL OUT- [SPARTAN- BUR VOR IS ON NAV 1]	1	2.00	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1PB9EA01	CALL OUT-(INITATE FIRE CONTROL PROCD.)	1	1.50	0	0	0	0	0	0	20	0	100
1PB9EA02	CALL OUT(MONITORING NO.1 FIRE WARNING LIGHT)	1	2.00	0	0	0	0	0	0	20	0	100
1PB9EA04	CALL OUT (THRUST LEVER TO IDLE)	1	1.30	0	0	0	0	0	0	20	0	100
1PB9EA06	CALL OUT (NO.1 START LEVER TO CUT OFF)	1	1.40	0	0	0	0	0	0	20	0	100
1PB9EA08	CALL OUT (FIRE WARNING SWITCH PULL)	1	1.30	0	0	0	0	0	0	20	100	0
1PB9EA10	CALL OUT (FIRE WARNING STILL ON, HANDLE ROTATION NOW)	1	3.00	0	0	0	0	0	0	20	0	100
1PB9EA11	CALL OUT (LEFT BOTTLE DISCHARGING)	1	1.50	0	0	0	0	0	0	20	0	100
1PB9EA12	CALL OUT (FIRE EXTINGUISHED)	1	.50	0	0	0	0	0	0	20	0	100
1PB9EA13	RADIO COMM (ALT DEP CONTROL-NASA 515- ENGINE FIRE-FXT.- REG.EMERG.APP.)	1	6.80	0	0	0	0	0	0	20	0	100
1PB9EA14	RADIO COMM(NASA-515 UNDERSTAND ENG.FIRE OUT-EMERG.APP REQ- TURN LEFT 360 DEGREE)	1	2.80	0	0	0	0	0	0	20	0	100
1PB9EA27	MAINTAIN SPEED AND ALTITUDE SQUAWK 7700 + IDENT)	1	3.00	0	0	0	0	0	0	20	0	100
1PB9EA15	RADIO COMM(ALT.D.C.- 515 TURN LEFT 360DEG MAINTAIN A/S+HOG SQ.7700+IDENT)	1	11.00	0	0	0	0	0	0	20	0	100
1PB9EA16	CALL OUT(MASTER FIRE WARNING OFF)	1	1.50	0	20	0	0	0	0	20	0	100
1PB9EA17	CALL OUT(NEG.NO.1 THRUST LEVER TO IDLE)	1	1.50	0	20	0	0	0	0	20	0	100
1PB9EA18	CALL OUT(ENG.NO.1 START LEVER OFF)	1	1.50	0	20	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
1PB9EA19	CALL OUT(ENG.FIRE WARNING SW PULLED)	1	1.50	0	20	0	0	0	0	20	0	100
1PB9EA20	CALL OUT(ISOLATION VALVE SW. CLOSED)	1	1.50	0	20	0	0	0	0	20	0	100
1PB9EA21	CALL OUT(APU BLEED VALVE OFF)	1	1.50	0	20	0	0	0	0	20	0	100
1PB9EA22	CALL OUT(APU START)	1	1.50	0	0	0	0	0	0	20	0	100
1PB9EA23	CALL OUT(FUEL,ELEC., AND WING ANTI-ICE ADJUSTED)	1	3.50	0	20	0	0	0	0	20	0	100
1PB9EA24	CALL OUT(NO.1 AFT +FWD FUEL AND GEN. SW. OFF)	1	4.20	0	0	0	0	0	0	20	0	100
1PB9EA25	CALL OUT(WING ANTI-ICE ADJUSTED)	1	1.50	0	0	0	0	0	0	20	0	100
1PB9EA26	CALL OUT(MASTER CAUTION LIGHT OFF)	1	1.50	0	0	0	0	0	0	20	0	100
1PC9FEC1	CALL OUT-[SYS B PUMP NO. 1 OVERHEATED]	1	2.70	0	0	0	0	0	0	20	0	100
1PC9FEC2	CALL OUT-[PUMP SWITCH OFF]	1	1.50	0	0	0	0	0	0	20	0	100
1PC9FEC3	CALL OUT-[CHECKLIST COMPLETE]	1	1.60	0	0	0	0	0	0	20	0	100
1P11FDC1	CALL OUT-[SYSTEM B LOW PRESSURE]	1	2.00	0	0	0	0	0	0	20	0	100
1P11FDC2	CALL OUT-[SYSTEM B FLT CONTROL SW-STBY RUDDER]	1	3.70	0	0	0	0	0	0	20	0	100
1P11FDC3	CALL OUT-[SYSTEM B HYD PUMPS-OFF]	1	3.00	0	0	0	0	0	0	20	0	100
1P11FDC4	CALL OUT-[AUTOPILOT HYD SYS SELECTOR- SYS A]	1	4.20	0	0	0	0	0	0	20	0	100
1P11AFC1	CALL OUT-[NO 2 OIL FILTER BYPASS]	1	3.20	0	0	0	0	0	0	20	0	100
1P11AFC2	CALL OUT-[LITE OUT AT XXX FPR]	1	3.50	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P110801	CALL OUT-[ELECTRICAL FAILURE]	1	2.10	0	0	0	0	0	0	20	0	100
1P110802	CALL OUT-[END 2 CSD LGW OIL PRESSURE]	1	4.00	0	0	0	0	0	0	20	0	100
1P110803	CALL OUT-[APU ON NO. 2 BUS]	1	3.70	0	0	0	0	0	0	20	0	100
1P110804	CALL OUT-[GEN DRIVE DISCONNECT SWITCH-DISCONNECT]	1	3.70	0	0	0	0	0	0	20	0	100
1P110805	CALL OUT-[APU-START, ON BUS]	1	4.00	0	0	0	0	0	0	20	0	100
1P110901	RADIO COMM -[ATLANTA CENTER, THIS IS NASA 515 LEVEL AT FLIGHT LEVEL THREE THREE]	1	4.00	0	0	0	0	0	0	20	0	100
1P110902	ZERO, OVER]	1	.20	0	0	0	0	0	0	20	0	100
1P110903	MON RADIO COMM - [NASA 515, ROGER]	1	1.70	0	0	0	0	0	0	20	0	100
1P110904	RADIO COMM -[ATLANTA CENTER, THIS IS NASA 515. REQUEST VECTORS FOR RETURN TO	1	4.00	0	0	0	0	0	0	20	0	100
1P110905	ATLANTA, OVER]	1	1.00	0	0	0	0	0	0	20	0	100
1P110906	MON RADIO COMM - [NASA 515, ROGER. STANDBY FOR INSTRUCTIONS]	1	2.00	0	0	0	0	0	0	20	100	0
1P110907	NON RADIO COMM - [NASA 515, FOR VECTOR TO INTERCEPT LANIER SIX ARRIVAL,	1	3.66	0	0	0	0	0	0	20	100	0
1P110908	PULASKI TRANSITION, TURN LGFT HEADING TWO SEVEN ZERO. CONTACT ATLANTA CENTER	1	4.68	0	0	0	0	0	0	20	100	0
1P110909	ON ONE THREE FIVE POINT THREE FIVE, OVER]	1	2.44	0	0	0	0	0	0	20	100	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P110010	RADIO COMM -[515, ROGER. LEFT HEADING TWO SEVEN ZERO, LANIER SIX ARRIVAL,	1	4.00	0	0	0	0	0	0	20	0	100
1P110011	CENTER ONE THREE FIVE POINT THREE FIVE.]	1	3.00	0	0	0	0	0	0	20	0	100
1P110012	RADIO COMM -[ATLANTA CENTER, THIS IS NASA. 515 LEVEL AT THREE THREE ZERO TURNING	1	3.50	0	0	0	0	0	0	20	0	100
1P110013	TO TWO SEVEN ZERO, OVER]	1	1.50	0	0	0	0	0	0	20	0	100
1P110014	MON RADIO COMM - [NASA 515, ROGER. SQUAWK IDENT]	1	2.50	0	0	0	0	0	0	20	100	0
1P110015	MON RADIO COMM- [NASA 515, RADAR CONTACT]	1	2.00	0	0	0	0	0	0	20	100	0
1P110016	MON RADIO COMM - [NASA 515, DESCEND AND MAINTAIN FLIGHT LEVEL THREE ONE ZERO	1	3.50	0	0	0	0	0	0	20	100	0
1P110017	. CONTACT CENTER ON ONE THREE TWO POINT SEVEN FIVE, OVER]	1	3.50	0	0	0	0	0	0	20	100	0
1P110018	RADIO COMM -[NASA 515, ROGER. MAINTAIN FLIGHT LEVEL THREE ONE ZERO, CENTER	1	4.00	0	0	0	0	0	0	20	0	100
1P110019	ONE THREE TWO POINT SEVEN FIVE.	1	2.00	0	0	0	0	0	0	20	0	100
1P110020	CALL OUT -[PULASKI VOR ON NAV 1]	1	2.50	0	0	0	0	0	0	20	0	100
1P130001	NON RADIO COMM - [NASA 515, FOR VEC- TORS TO INTERCEPT JAY EIGHT FIFTEEN R,	1	3.70	0	0	0	0	0	0	20	100	0
1P130002	TURN LEFT HEADING TWO SEVEN ZERO, OVER	1	2.50	0	0	0	0	0	0	20	100	0
1P130003	RADIO COMM - [515, ROGER. LEFT HEADING TWO SEVEN ZERO]	1	2.70	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P130004	MON RADIO COMM - [NASA 515, YOU ARE CLEARED TO THE AT- LANTA INTERNATIONAL	1	4.50	0	0	0	0	0	0	20	100	0
1P130005	AIRPORT VIA JAY EIGHT FIFTEEN R AND SHINE OH ONE STAR. PTA AT LAKESIDE IS	1	4.50	0	0	0	0	0	0	20	100	0
1P130006	TEN TWENTY ONE OH OH, OVER]	1	.50	0	0	0	0	0	0	20	100	0
1P130007	MON RADIO COMM - [NASA 515, CONTACT CENTER ON ONE THREE FIVE POINT THREE	1	4.00	0	0	0	0	0	0	20	100	0
1P130008	FIVE, OVER]	1	.30	0	0	0	0	0	0	20	100	0
1P130009	RADIO COMM - [515, ROGER. ONE THREE FIVE POINT THREE FIVE]	1	3.10	0	0	0	0	0	0	20	0	100
1P130010	RADIO COMM - [515, ROGER. CLEARED TO ATLANTA VIA SHINE OH ONE. PTA LAKESIDE	1	4.00	0	0	0	0	0	0	20	0	100
1P130011	TEN TWENTY ONE OH OH.]	1	3.50	0	0	0	0	0	0	20	0	100
1P140001	RADIO COMM -[ATLANTA CENTER, THIS IS NASA 515 LEAVING FLIGHT LEVEL THREE THREE	1	4.00	0	0	0	0	0	0	20	0	100
1P140002	ZERO FOR FLIGHT LVL THREE ONE ZERO, OVER	1	2.00	0	0	0	0	0	0	20	0	100
1P140003	MON RADIO COMM - [NASA 515, ATLANTA CENTER, ROGER. SQUAWK IDENT]	1	3.00	0	0	0	0	0	0	20	100	0
1P140004	MON RADIO COMM - [NASA 515, RADAR CONTACT]	1	2.00	0	0	0	0	0	0	20	100	0
1P140005	MON RADIO COMM - [NASA 515, FOR VEC- TOP TO INTERCEPT PULASKI TWO TWO FIVE	1	3.27	0	0	0	0	0	0	20	100	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P140006	RADIAL, TURN LEFT HEADING TWO FOUR ZERO, CLEARED TO THE ATLANTA INTERNA-	1	4.36	0	0	0	0	0	0	20	100	0
1P140007	TIONAL AIRPORT VIA THE LANIER SIX AR- RIVAL, PULASKI TRAN- SITION, OVER]	1	4.36	0	0	0	0	0	0	20	100	0
1P140008	RADIO COMM -[515, ROGER. LEFT HEADING TWO FOUR ZERO FOR PULASKI TWO TWO FIVE	1	4.00	0	0	0	0	0	0	20	0	100
1P140009	RADIAL, LANIER SIX ARRIVAL.]	1	2.00	0	0	0	0	0	0	20	0	100
1P140010	MON RADIO COMM - [NASA 515, CONTACT CENTER ON ONE THREE TWO POINT EIGHT, OVER	1	3.50	0	0	0	0	0	0	20	100	0
1P140011	RADIO COMM -[NASA 515, ROGER. ONE THREE TWO POINT EIGHT.]	1	3.50	0	0	0	0	0	0	20	0	100
1P140012	RADIO COMM -[ATLANTA CENTER, NASA 515 LEVEL AT FLIGHT LVL THREE ONE ZERO, OVER]	1	4.00	0	0	0	0	0	0	20	0	100
1P140013	MON RADIO COMM - [NASA 515, ATLANTA CENTER, ROGER. SQUAWK IDENT]	1	3.00	0	0	0	0	0	0	20	100	0
1P140014	MON RADIO COMM- [NASA 515, RADAR CONTACT]	1	2.00	0	0	0	0	0	0	20	100	0
1P140015	MON RADIO COMM - [NASA 515, DESCEND AND MAINTAIN FLIGHT LEVEL TWO FOUR ZERO.	1	3.90	0	0	0	0	0	0	20	100	0
1P140016	REPORT LEAVING FLT LEVEL TWO SIX ZERO, OVER]	1	2.60	0	0	0	0	0	0	20	100	0
1P140017	RADIO COMM -[515, ROGER. MAINTAIN FLT LEVEL TWO FOUR ZERO. REPORT FLIGHT LEVEL	1	4.00	0	0	0	0	0	0	20	0	100
1P140018	TWO SIX ZERO]	1	1.00	0	0	0	0	0	0	20	0	100



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P140019	RADIO COMM -[ATLANTA CENTER, NASA 515 LEAVING FLIGHT LEVEL TWO SIX ZERO, OVER]	1	4.00	0	0	0	0	0	0	20	0	100
1P140020	MON RADIO COMM - [NASA 515, DESCEND AND MAINTAIN ONE ONE THOUSAND. CONTACT	1	3.75	0	0	0	0	0	0	20	100	0
1P140021	CENTER ON ONE TWO FIVE POINT TWO, OVER]	1	2.50	0	0	0	0	0	0	20	100	0
1P140022	RADIO COMM -[NASA 515, ROGER. MAINTAIN ONE ONE THOUSAND, CENTER ONE TWO FIVE	1	4.00	0	0	0	0	0	0	20	0	100
1P140023	POINT TWO.]	1	1.00	0	0	0	0	0	0	20	0	100
1P140024	RADIO COMM -[ATLANTA CENTER, THIS IS NASA 515 LEAVING FLIGHT LEVEL TWO FIVE ZERO	1	4.00	0	0	0	0	0	0	20	0	100
1P140025	FOR ONE ONE THOU- SAND, OVER]	1	2.00	0	0	0	0	0	0	20	0	100
1P140026	MON RADIO COMM - [NASA 515, ATLANTA CENTER, ROGER. SQUAWK IDENT. ALTI-	1	3.50	0	0	0	0	0	0	20	100	0
1P140027	AFTER TWO NINER POINT EIGHT EIGHT]	1	2.50	0	0	0	0	0	0	20	100	0
1P140028	MON RADIO COMM - [NASA 515, MAINTAIN ONE FIVE THOUSAND. CLEARANCE LIMIT IS	1	4.00	0	0	0	0	0	0	20	100	0
1P140029	NOW LANIER INTERSEC- TION. HOLD NORTHWEST OF FIX ON NORTHCROSS ZERO FOUR ONE RADIAL	1	5.33	0	0	0	0	0	0	20	100	0
1P140030	ONE AND ONE-HALF MINUTE RIGHT TURNS. EXPECT FURTHER CLEARANCE AT ONE	1	5.33	0	0	0	0	0	0	20	100	0
1P140031	SEVEN ONE FIVE, OVER]	1	1.33	0	0	0	0	0	0	20	100	0
1P140032	RADIO COMM -[515, ROGER. MAINTAIN ONE FIVE THOUSAND. HOLD NORTHWEST OF LANIER	1	4.50	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P140032	INTERSECTION, RIGHT TURNS.]	1	1.50	0	0	0	0	0	0	20	0	100
1P140034	MON RADIO COMM - [NASA 515, CLEARED TO ATLANTA INTER- NATIONAL AIRPORT VIA	1	3.27	0	0	0	0	0	0	20	100	0
1P140035	LAST FOOTING CLEARED . INCREASE SPEED TO TWO THREE ZERO KNOTS . DESCEND AND MAIN-	1	4.36	0	0	0	0	0	0	20	100	0
1P140036	TAIN ONE ONE THOU- SAND. EXPECT AN ILS RUNWAY ZERO EIGHT APPROACH, OVER]	1	4.36	0	0	0	0	0	0	20	100	0
1P140037	RADIO COMM -[515, ROGER. INCREASE SPD TWO THREE ZERO. MAINTAIN ONE ONE	1	4.50	0	0	0	0	0	0	20	0	100
1P140038	THOUSAND]	1	.50	0	0	0	0	0	0	20	0	100
1P140039	MON RADIO COMM - [NASA 515, CONTACT APPROACH CONTROL ON ONE TWO SIX POINT	1	4.00	0	0	0	0	0	0	20	100	0
1P140040	NINER, OVER]	1	1.00	0	0	0	0	0	0	20	100	0
1P140041	RADIO COMM -[NASA 515, PIGER. APPROACH ON ONE TWO SIX POINT NINER]	1	4.00	0	0	0	0	0	0	20	0	100
1P140042	CALL OUT -[TOCCOA VOR ON NAV 2 ]	1	2.30	0	0	0	0	0	0	20	0	100
1P140042	CALL OUT -[ALTIMETER SETTING IS TWO NINER POINT EIGHT]	1	2.40	0	0	0	0	0	0	20	0	100
1P140044	CALL OUT -[ENRCROSS VOR ON NAV 1 ]	1	2.30	0	0	0	0	0	0	20	0	100
1P140045	CALL OUT -[1000 FEET TO LEVEL OFF]	1	1.70	0	0	0	0	0	0	20	0	100
1P140046	CALL OUT -[CHATA- NUGGA VOR ON NAV 2]	1	2.30	0	0	0	0	0	0	20	0	100
1P140047	CALL OUT -[THIRTY SECONDS]	1	.60	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P140048	CALL OUT -[SIXTY SECONDS]	1	.80	0	0	0	0	0	0	20	0	100
1P140049	CALL OUT -[EIGHTY FIVE SECONDS]	1	.80	0	0	0	0	0	0	20	0	100
1P150001	MGN RADIO COMM - [NASA 515, REPORT LEAVING FLIGHT LEVEL TWO SIX ZERO. ALTI-	1	4.00	0	0	0	0	0	0	20	100	0
1P150002	METER TWO NINER EIGHT EIGHT, OVER]	1	2.00	0	0	0	0	0	0	20	100	0
1P150003	RADIO COMM - [515 ROGER. REPORT FLIGHT LEVEL TWO SIX ZERO.]	1	3.00	0	0	0	0	0	0	20	0	100
1P150005	MGN RADIO COMM - [NASA 515, ROGER. CONTACT CENTER ON ONE TWO FIVE POINT	1	3.00	0	0	0	0	0	0	20	100	0
1P150006	TWO, OVER.]	1	1.50	0	0	0	0	0	0	20	100	0
1P150007	RADIO COMM - [515, ROGER. CENTER ONE TWO FIVE POINT TWO.]	1	3.30	0	0	0	0	0	0	20	0	100
1P150008	MGN RADIO COMM - [NASA 515, ATLANTA CENTER, ROGER. SQUAWK IDENT]	1	3.70	0	0	0	0	0	0	20	100	0
1P150009	MGN RADIO COMM - [NASA 515, DUE TO TRAFFIC YOUR PLANNED TIME OF ARRIVAL AT	1	4.00	0	0	0	0	0	0	20	100	0
1P150010	LAKESIDE IS NOW 10:22:15 , OVER]	1	4.00	0	0	0	0	0	0	20	100	0
1P150011	RADIO COMM - [515, ROGER, TIME OF ARRIVAL NOW 10:22:15]	1	4.50	0	0	0	0	0	0	20	0	100
1P150012	CALL OUT -[FLIGHT PLAN UPDATED WITH NEW ALTITUDE]	1	2.00	0	0	0	0	0	0	20	0	100
1P150013	CALL OUT -[ALTIMETER BARO SETTING IS TWO NINER EIGHT EIGHT]	1	2.70	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P150014	CALL OUT -[FLIGHT PLAN UPDATED WITH NEW PTA AT LAKESIDE]	1	3.00	0	0	0	0	0	0	20	0	100
1P160001	MON RADIO COMM - [INFORMATION LIMA: ONE SEVEN ZERO FIVE OBSERVATION- TWO]	1	3.42	0	0	0	0	0	0	20	100	0
1P160002	FIVE HUNDRED SCAT- TERED CEILING FOUR THOUSAND BROKEN. VISIBILITY ONE SIX.	1	4.56	0	0	0	0	0	0	20	100	0
1P160003	TEMPERATURE FIVE NINER. WIND ONE ONE ZERO DEGREES AT TEN GUSTING TO ONE SEVEN	1	4.56	0	0	0	0	0	0	20	100	0
1P160004	. ALTIMETER TWO - NINER EIGHT FOUR. SIMULTANEOUS PARAL- LEL APPROACHES IN	1	4.56	0	0	0	0	0	0	20	100	0
1P160005	OPERATION ON RUNWAYS ZERO EIGHT AND NINER RIGHT. ADVISE CON- TROLLER ON INITIAL	1	4.56	0	0	0	0	0	0	20	100	0
1P160006	CONTACT YOU HAVE IN- FORMATION LIMA.]	1	2.28	0	0	0	0	0	0	20	100	0
1P160007	RADIO COMM -[ATLANTA APPROACH CONTROL, THIS IS NASA 515 LEVEL AT ONE ONE	1	4.00	0	0	0	0	0	0	20	0	100
1P160008	THOUSAND WITH INFOR- MATION LIMA, OVER]	1	2.00	0	0	0	0	0	0	20	0	100
1P160009	MON RADIO COMM - [NASA 515, ROGER. SQUAWK IDENT.]	1	2.50	0	0	0	0	0	0	20	100	0
1P160010	MON RADIO COMM - [NASA 515, TURN LEFT HEADING TWO ONE ZERO REDUCE SPEED TO TWO	1	4.00	0	0	0	0	0	0	20	100	0
1P160011	ZERO] ZERO, OVER]	1	2.00	0	0	0	0	0	0	20	100	0
1P160012	RADIO COMM -[515, ROGER. LEFT HEADING TWO ONE ZERO, SLOW TO TWO ZERO ZERO]	1	5.00	0	0	0	0	0	0	20	0	100
1P160013		1	5.00	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
1P160014	MON RADIO COMM - [NASA 515, REDUCE SPEED TO ONE NINER ZERO KNOTS, OVER]	1	4.00	0	0	0	0	0	0	20	100	0	
1P160015	RADIO COMM - [515, ROGER, ONE IONER ZERO KNOTS]	1	2.50	0	0	0	0	0	0	20	0	100	
1P160016	MON RADIO COMM - [NASA 515, CONTACT APPROACH CONTROL ON ONE TWO SEVEN POINT	1	4.00	0	0	0	0	0	0	20	100	0	
1P160017	TWO FIVE, OVER]	1	1.00	0	0	0	0	0	0	20	100	0	
1P160018	RADIO COMM-[515, ROGER, ONE TWO SEVEN POINT TWO FIVE]	1	3.00	0	0	0	0	0	0	20	0	100	
1P160019	RADIO COMM -[ATLANTA APPROACH CONTROL, THIS IS NASA 515 LEVEL AT ONE ONE	1	3.50	0	0	0	0	0	0	20	0	100	
1P160020	THOUSAND, OVER]	1	.75	0	0	0	0	0	0	20	0	100	
1P160021	MON RADIO COMM - [NASA 515, ATLANTA APPROACH, ROGER, SQUAWK IDENT]	1	3.50	0	0	0	0	0	0	20	100	0	
1P160022	MON RADIO COMM - [NASA 515, TURN RT HEADING TWO SEVEN ZERO, REDUCE SPEED	1	3.00	0	0	0	0	0	0	20	100	0	
1P160023	TO ONE SEVEN ZERO KNOTS, DESCEND AND MAINTAIN FOUR FIVE HUNDRED, OVER]	1	4.00	0	0	0	0	0	0	20	100	0	
1P160024	RADIO COMM -[515, ROGER, LEFT HEADING TWO SEVEN ZERO, SLOW TO ONE SEVEN ZERO.	1	4.00	0	0	0	0	0	0	20	0	100	
1P160025	MAINTAIN FOUR FIVE HUNDRED.]	1	2.00	0	0	0	0	0	0	20	0	100	
1P160026	MON RADIO COMM - [NASA 515, TURN LEFT HEADING ONE EIGHT ZERO, OVER]	1	3.50	0	0	0	0	0	0	20	100	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
1P160027	RADIO COMM -[515 ROGER. LEFT HEADING ONE EIGHT ZERO.]	1	3.00	0	0	0	0	0	0	20	0	100
1P160028	MON RADIO COMM - [NASA 515, YOU ARE FOURTEEN MILES FROM THE OUTER MARKER.]	1	3.21	0	0	0	0	0	0	20	100	0
1P160029	TURN LEFT HEADING ONE TWO ZERO FOR VECTOR TO INTERCEPT FINAL APPROACH	1	4.28	0	0	0	0	0	0	20	100	0
1P160030	COURSE. YOU ARE CLEARED FOR AN ILS RUNWAY ZERO EIGHT APPROACH. CONTACT	1	4.28	0	0	0	0	0	0	20	100	0
1P160031	TOWER AT THE OUTER MARKER ON ONE ONE NINE POINT FIVE, OVER]	1	3.21	0	0	0	0	0	0	20	100	0
1P160032	RADIO COMM- [515, ROGER. LEFT HEADING ONE TWO ZERO. ILS RUNWAY ZERO EIGHT	1	4.00	0	0	0	0	0	0	20	0	100
1P160033	APPROACH. TOWER AT OUTER MARKER ON ONE ONE NINE POINT FIVE	1	3.00	0	0	0	0	0	0	20	0	100
1P160034	MON RADIO COMM- [NASA 515, REDUCE SPEED TO ONE FIVE ZERO KNOTS OVER]	1	3.50	0	0	0	0	0	0	20	100	0
1P160035	RADIO COMM -[515, ROGER. ONE FIVE ZERO KNOTS]	1	2.50	0	0	0	0	0	0	20	0	100
1P160036	MON RADIO COMM - [NASA 515, MAINTAIN CURRENT SPEED UNTIL CROSSING STUBBS, OVER]	1	3.50	0	0	0	0	0	0	20	100	0
1P160037	RADIO COMM - [515, ROGER]	1	1.70	0	0	0	0	0	0	20	0	100
1P160038	RADIO COMM-[ATLANTA TOWER, THIS IS NASA 515 OVER LAKESIDE INBOUND FOR RUNWAY	1	4.00	0	0	0	0	0	0	20	0	100
1P160039	ZERO EIGHT, OVER]	1	1.00	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									VBL
				EV	IV	LH	RH	LF	RF	COG	AUD		
1P160040	MON RADIO COMM - [NASA 515, ATLANTA TOWER, ROGER. CLEAR TO LAND RUNWAY ZERO	1	4.00	0	0	0	0	0	0	20	100	0	
1P160041	EIGHT. WIND ONE ONE ZERO DEGREES AT ZERO NINER.]	1	3.00	0	0	0	0	0	0	20	100	0	
1P160042	CALL OUT-[ALTIMETER BARO SETTING IS TWO NINER POINT EIGHT FOUR]	1	3.50	0	0	0	0	0	0	20	0	100	
1P160043	CALL OUT-[DESCENT AND APPROACH CHECK- LIST]	1	2.00	0	0	0	0	0	0	20	0	100	
1P160044	CALL OUT-[ANTI-ICE]	1	1.00	0	0	0	0	0	0	20	0	100	
1P160045	CALL OUT-[END REQD]	1	.80	0	0	0	0	0	0	20	0	100	
1P160046	CALL OUT -[AIR CON- DITIONING AND PRES- SURIZATION]	1	1.80	0	0	0	0	0	0	20	0	100	
1P160047	CALL OUT [SET]	1	.40	0	0	0	0	0	0	20	0	100	
1P160048	CALL OUT-[START SWITCHES]	1	.90	0	0	0	0	0	0	20	0	100	
1P160049	CALL OUT [FLIGHT]	1	.50	0	0	0	0	0	0	20	0	100	
1P160050	CALL OUT-[INBOARD LANDING LIGHTS]	1	1.10	0	0	0	0	0	0	20	0	100	
1P160051	CALL OUT -[ON]	1	.30	0	0	0	0	0	0	20	0	100	
1P160052	CALL OUT -[ALTIMETER AND INSTRUMENTS]	1	1.40	0	0	0	0	0	0	20	0	100	
1P160053	CALL OUT-[SET AND CROSSCHECKED]	1	1.30	0	0	0	0	0	0	20	0	100	
1P160054	CALL OUT-[EPR AND IAS BUGS]	1	1.50	0	0	0	0	0	0	20	0	100	
1P160055	CALL OUT -[V-REF IS XXX KNOTS]	1	1.90	0	0	0	0	0	0	20	0	100	
1P160056	CALL OUT -[BUGS SET AND CROSS-CHECKED]	1	1.60	0	0	0	0	0	0	20	0	100	
1P160057	CALL OUT -[CHECKLIST COMPLETED]	1	1.30	0	0	0	0	0	0	20	0	100	
1P160058	CALL OUT -[FLAPS 1]	1	.70	0	0	0	0	0	0	20	0	100	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P160059	CALL OUT -[RUNWAY 08 ILS IS ON NAV 1]	1	2.90	0	0	0	0	0	0	20	0	100
1P160060	CALL OUT -[REG VOR IS ON NAV 2]	1	2.00	0	0	0	0	0	0	20	0	100
1P160061	CALL OUT -[FLAPS 5]	1	.70	0	0	0	0	0	0	20	0	100
1P160062	CALL OUT -[FLAPS 15]	1	.70	0	0	0	0	0	0	20	0	100
1P160063	MON RADIO COMM - [NASA 515, REDUCE SPEED TO ONE SIX ZERO KNOTS, OVER]	1	4.00	0	0	0	0	0	0	20	100	0
1P160064	RADIO COMM-[515, ROGER. ONE SIX ZERO KNOTS]	1	2.50	0	0	0	0	0	0	20	0	100
1P160065	CALL OUT -[LAKESIDE ON ADF-1]	1	1.50	0	0	0	0	0	0	20	0	100
1P160066	CALL OUT -[LAKESIDE ON ADF-2]	1	1.50	0	0	0	0	0	0	20	0	100
1P160067	CALL OUT -[LOCALIZER ALIVE]	1	1.30	0	0	0	0	0	0	20	0	100
1P160068	CALL OUT-[I HAVE NAV 2 DATA]	1	1.50	0	0	0	0	0	0	20	0	100
1P160069	CALL OUT -[ILS ON NAV 1]	1	1.50	0	0	0	0	0	0	20	0	100
1P160070	CALL OUT -[FLAPS 25]	1	.70	0	0	0	0	0	0	20	0	100
1P160071	CALL OUT -[GLIDE SLOPE ALIVE]	1	1.00	0	0	0	0	0	0	20	0	100
1P160072	CALL OUT -[CROSSING STUBBS]	1	1.00	0	0	0	0	0	0	20	0	100
1P160073	CALL OUT -[FLAPS 40]	1	.70	0	0	0	0	0	0	20	0	100
1P160074	CALL OUT -[RUNWAY IN SITE]	1	1.00	0	0	0	0	0	0	20	0	100
1P160075	CALL OUT -[GEAR DOWN AND LANDING CHECK- LIST]	1	1.00	0	0	0	0	0	0	20	0	100
1P160076	CALL OUT -[RECALL]	1	.60	0	0	0	0	0	0	20	0	100
1P160077	CALL OUT -[CHECKED]	1	.40	0	0	0	0	0	0	20	0	100



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P160078	CALL OUT -[SPEED BRAKES]	1	.70	0	0	0	0	0	0	20	0	100
1P160079	CALL OUT -[ARMED - GREEN LIGHT]	1	1.30	0	0	0	0	0	0	20	0	100
1P160080	CALL OUT -[LANDING GEAR]	1	.70	0	0	0	0	0	0	20	0	100
1P160081	CALL OUT -[DOWN, THREE GREEN]	1	1.00	0	0	0	0	0	0	20	0	100
1P160082	CALL OUT -[FLAPS]	1	.40	0	0	0	0	0	0	20	0	100
1P160083	CALL OUT -[FORTY, GREEN LIGHT]	1	1.10	0	0	0	0	0	0	20	0	100
1P160084	CALL OUT -[CHECKLIST COMPLETED]	1	1.10	0	0	0	0	0	0	20	0	100
1P160085	CALL OUT -[FIVE HUN- DRED FEET ABOVE RUN- WAY]	1	1.00	0	0	0	0	0	0	20	0	100
1P160086	CALL OUT -[DECISION HEIGHT]	1	.80	0	0	0	0	0	0	20	0	100
1P160087	MON RADIO COMM - [NASA 515, EXIT RUN- WAY NEXT INTERSEC- TION. CONTACT GROUND]	1	3.50	0	0	0	0	0	0	20	100	0
1P160088	POINT NINER WHEN CLEAR OF RUNWAY, OVER]	1	2.50	0	0	0	0	0	0	20	100	0
1P160089	RADIO COMM -[515, ROGER. POINT NINER WHEN CLEAR]	1	2.50	0	0	0	0	0	0	20	0	100
1P160090	RADIO COMM -[ATLANTA GROUND, THIS IS NASA 515. TAXI TO GATE X, OVER]	1	3.50	0	0	0	0	0	0	20	0	100
1P160091	MON RADIO COMM - [NASA 515, ATLANTA GROUND, TAXI TO RAMP VIA NORTHEAST-SOUTH-]	1	3.50	0	0	0	0	0	0	20	100	0
1P160092	WEST TAXIWAY, OVER]	1	1.00	0	0	0	0	0	0	20	100	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P16EK01	RADIO COMM - [APPROACH CONTROL, THIS IS NASA 515. THE PILOT IS INCA-	1	3.00	0	0	0	0	0	0	20	0	100
1P16EK02	PACITATED. I WILL MAKE A NORMAL ILS APPROACH AND LAND- ING. REQUEST AN AM-	1	4.00	0	0	0	0	0	0	20	0	100
1P16EK03	BULANCE TO STANDBY AT GATE X, OVER]	1	3.00	0	0	0	0	0	0	20	0	100
1P16EK04	MON RADIO COMM- [NASA 515, APPROACH CONTROL. UNDERSTAND THAT YOUR PILOT IS	1	3.00	0	0	0	0	0	0	20	100	0
1P16EK05	INCAPACITATED AND REQUEST AMBULANCE. WILL USE NORMAL ILS APPROACH AND LAND.	1	4.00	0	0	0	0	0	0	20	100	0
1P16EK06	ADVISE IF YOU RE- QUIRE SPECIAL HAND- LING.]	1	3.00	0	0	0	0	0	0	20	100	0
1P16EK07	PACITATED. I WILL MAKE A NORMAL ILS APPROACH AND LAND- ING. REQUEST AN AM-	1	4.00	0	0	0	0	0	0	20	0	100
1P16EK08	INCAPACITATED AND REQUEST AMBULANCE. WILL USE NORMAL ILS APPROACH AND LAND.	1	4.00	0	0	0	0	0	0	20	0	100
1P170001	MON RADIO COMM - [NASA 515, REDUCE SPEED TO TWO ZERO ZERO KNOTS, OVER]	1	4.00	0	0	0	0	0	0	20	100	0
1P170002	RADIO COMM -[515, ROGER. SLOW TO TWO ZERO ZERO]	1	3.00	0	0	0	0	0	0	20	0	100
1P170003	MON RADIO COMM - [NASA 515, TURN LEFT HEADING TWO ONE ZERO , OVER]	1	3.70	0	0	0	0	0	0	20	100	0
1P170004	RADIO COMM -[515, ROGER. LEFT HEADING TWO ONE ZERO]	1	2.80	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
1P170005	MON RADIO COMM - [NASA 515, TURN RT HEADING TWO SEVEN ZERO, REDUCE SPEED	1	3.50	0	0	0	0	0	0	20	100	0	
1P170006	TO ONE EIGHT ZERO. DESCEND AND MAINTAIN SIX THOUSAND, OVER]	1	3.50	0	0	0	0	0	0	20	100	0	
1P170007	RADIO COMM - [515, ROGER. RIGHT HEADING TWO SEVEN ZERO, SLOW TO ONE EIGHT ZERO,	1	4.00	0	0	0	0	0	0	20	0	100	
1P170008	MAINTAIN SIX THOU- SAND]	1	1.50	0	0	0	0	0	0	20	0	100	
1P170009	MON RADIO COMM - [NASA 515, TURN LEFT HEADING ONE EIGHT ZERO, DESCEND AND	1	3.50	0	0	0	0	0	0	20	100	0	
1P170010	MAINTAIN THREE SIX HUNDRED, OVER]	1	1.50	0	0	0	0	0	0	20	100	0	
1P170011	RADIO COMM -[515, ROGER. LEFT HEADING ONE EIGHT ZERO, MAINTAIN THREE SIX	1	3.50	0	0	0	0	0	0	20	0	100	
1P170012	HUNDRED]	1	.50	0	0	0	0	0	0	20	0	100	
1P170013	MON RADIO COMM - [NASA 515, REDUCE SPEED TO ONE SIX ZERO KNOTS, OVER]	1	3.50	0	0	0	0	0	0	20	0	100	
1P170014	RADIO COMM -[515, ROGER. SLOW TO ONE SIX ZERO]	1	3.00	0	0	0	0	0	0	20	0	100	
1P170015	MON RADIO COMM - [NASA 515, YOU ARE SIX MILES FROM THE APPROACH GATE. YOU	1	3.00	0	0	0	0	0	0	20	100	0	
1P170016	ARE CLEARED FOR AN MLS RUNWAY ZERO EIGHT APPROACH. CON- TACT ATLANTA TOWER	1	4.00	0	0	0	0	0	0	20	100	0	
1P170017	AFTER CROSSING GATE AT ONE MINOR POINT FIVE, OVER]	1	3.00	0	0	0	0	0	0	20	100	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P170018	RADIO COMM -[515, ROGER. MSL RUNWAY ZERO EIGHT APPROACH, TOWER AFTER GATE ON	1	4.00	0	0	0	0	0	0	20	0	100
1P170019	ONE NINER POINT FIVE	1	1.00	0	0	0	0	0	0	20	0	100
1P170020	MON RADIO COMM - [NASA 515, MAINTAIN CURRENT SPEED UNTIL CROSSING APPROACH	1	3.50	0	0	0	0	0	0	20	100	0
1P170021	GATE, OVER]	1	.75	0	0	0	0	0	0	20	100	0
1P170022	RADIO COMM -[ATLANTA TOWER, THIS IS NASA 515, CVLF APPROACH GATE FOR RUNWAY	1	4.00	0	0	0	0	0	0	20	0	100
1P170023	ZERO EIGHT, OVER]	1	1.00	0	0	0	0	0	0	20	0	100
1P170024	MON RADIO COMM - [NASA 515, ATLANTA TOWER, ROGER. CLEAR- ED TO LAND RUNWAY	1	3.50	0	0	0	0	0	0	20	100	0
1P170025	ZERO EIGHT. WIND ONE ONE ZERO AT ZERO NINER.]	1	3.50	0	0	0	0	0	0	20	100	0
1P170026	CALL OUT -[RUNWAY 08 MSL ON NAV 1 AND NAV 2]	1	3.00	0	0	0	0	0	0	20	0	100
1P180001	MON RADIO COMM - [NASA 515, CONTACT ATLANTA TOWER ON ONE ONE NINER POINT FIVE	1	4.00	0	0	0	0	0	0	20	100	0
1P180002	, OVER.]	1	.50	0	0	0	0	0	0	20	100	0
1P180003	RADIO COMM - [515, ROGER. ONE ONE NINER POINT FIVE.]	1	2.70	0	0	0	0	0	0	20	0	100
1P180004	MON RADIO COMM - [NASA 515, CONTACT TOWER AT THE OUTER MARKER ON ONE ONE	1	4.00	0	0	0	0	0	0	20	100	0
1P180005	NINER POINT FIVE, OVER.]	1	1.50	0	0	0	0	0	0	20	100	0
1P180006	RADIO COMM -[515, ROGER, TOWER AT OUTER MARKER ON ONE ONE NINER POINT FIVE	1	4.00	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P200001	INTPHN COMM -[ADVISE WHEN CHOCKS IN PLACE]	1	1.80	0	0	0	0	0	0	20	0	100
1P200002	MGN INTPHN COMM - [ROGER]	1	.60	0	0	0	0	0	0	20	0	100
1P200003	MON INTPHN COMM - [CHOCKS IN PLACE]	1	1.10	0	0	0	0	0	0	20	0	100
1P200004	INTPHN COMM -[ROGER]	1	.60	0	0	0	0	0	0	20	0	100
1P200005	CALL OUT-[SHUTDOWN CHECKLIST]	1	1.20	0	0	0	0	0	0	20	0	100
1P200006	CALL OUT -[FUEL]	1	.70	0	0	0	0	0	0	20	0	100
1P200007	CALL -[PUMPS OFF]	1	.80	0	0	0	0	0	0	20	0	100
1P200008	CALL OUT -[GALLEY POWER]	1	.90	0	0	0	0	0	0	20	0	100
1P200009	CALL OUT -[OFF]	1	.50	0	0	0	0	0	0	20	0	100
1P200010	CALL OUT- [ELECTRI- CAL]	1	1.00	0	0	0	0	0	0	20	0	100
1P200011	CALL OUT -[ON]	1	.70	0	0	0	0	0	0	20	0	100
1P200012	CALL OUT -[EMERGENCY EXIT LIGHTS]	1	1.10	0	0	0	0	0	0	20	0	100
1P200013	CALL OUT -[SEAT BELT LIGHT]	1	1.20	0	0	0	0	0	0	20	0	100
1P200014	CALL OUT -[WINDOW HEAT]	1	1.00	0	0	0	0	0	0	20	0	100
1P200015	CALL OUT -[PITOT HEAT]	1	1.00	0	0	0	0	0	0	20	0	100
1P200016	CALL OUT -[ANTI-ICE]	1	1.20	0	0	0	0	0	0	20	0	100
1P200017	CALL OUT -[SYSTEM B PUMPS]	1	1.50	0	0	0	0	0	0	20	0	100
1P200018	CALL OUT -[AIR COND AND PRESSURIZATION]	1	2.10	0	0	0	0	0	0	20	0	100
1P200019	CALL OUT -[ONE PACK, GROUND/BLEEDS ON, GROUND]	1	3.00	0	0	0	0	0	0	20	0	100
1P200020	CALL OUT-[ANTI-COL- LISSION LT]	1	1.20	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1P200021	CALL OUT-[START SWITCHES] BRAKES]	1	1.20	0	0	0	0	0	0	20	0	100
1P200022	CALL OUT - [AUTO	1	1.00	0	0	0	0	0	0	20	0	100
1P200023	CALL OUT-[RADAR AND TRANSPONDER]	1	1.40	0	0	0	0	0	0	20	0	100
1P200024	CALL OUT-[SPEED- BRAKE]	1	1.00	0	0	0	0	0	0	20	0	100
1P200025	CALL OUT-[FLAPS]	1	.60	0	0	0	0	0	0	20	0	100
1P200026	CALL OUT-[PARKING BRAKES]	1	1.00	0	0	0	0	0	0	20	0	100
1P200027	CALL OUT- [START LEVERS]	1	1.00	0	0	0	0	0	0	20	0	100
1P200029	CALL OUT -[UP]	1	.60	0	0	0	0	0	0	20	0	100
1P200030	CALL OUT- [DOWN DETENT]	1	1.20	0	0	0	0	0	0	20	0	100
1P200031	CALL OUT -[RELEASED	1	1.00	0	0	0	0	0	0	20	0	100
1P200032	CALL OUT- [CUTOFF]	1	.90	0	0	0	0	0	0	20	0	100
1P200033	CALL OUT -[OXYGEN REGULATOR]	1	1.50	0	0	0	0	0	0	20	0	100
1P200034	CALL OUT -[OFF, 100]	1	2.50	0	0	0	0	0	0	20	0	100
1P200035	CALL OUT -[CHECKLIST COMPLETE DOWN TO SECURE]	1	2.50	0	0	0	0	0	0	20	0	100
1P200036	CALL OUT - [APU]	1	1.00	0	0	0	0	0	0	20	0	100
1P200037	CALL OUT -[BATTERY]	1	1.00	0	0	0	0	0	0	20	0	100
1P200038	CALL OUT -[SHUTDOWN CHECKLIST COMPLETED]	1	1.50	0	0	0	0	0	0	20	0	100
1P200039	CALL OUT -[CONTINUE CHECKLIST]	1	1.20	0	0	0	0	0	0	20	0	100
1P200040	MON INTPHN COMM - [TESTING, TESTING, OVER]	1	1.50	0	0	0	0	0	0	20	100	0
1P200041	INTPHN COMM - [PAGER, HEAR YOU LOUD AND CLEAR. ARE CHOCKS SFT, OVER]	1	3.00	0	0	0	0	0	0	20	0	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
1P200C42	MON INTPHN COMM - [CHCKS IN PLACE ]	1	.80	0	0	0	0	0	0	0	20	100	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
10	C1 MON VHF-1L FREQ IND	1	.77	0	100	0	0	0	0	20	0	0
		2	4.48	0	100	0	0	0	0	20	0	0
		3	4.97	0	100	0	0	0	0	0	0	0
		4	4.97	0	100	0	0	0	0	20	0	0
10	C2 SET VHF-1L FREQ - WHOLE NUMBERS	1	2.90	0	0	0	100	0	0	20	0	0
		2	3.00	0	0	100	0	0	0	20	0	0
10	C3 SET VHF-1L FREQ - FRACTIONS	1	1.58	0	0	0	0	0	0	20	0	0
		2	1.97	0	0	100	0	0	0	20	0	0
10	C4 ADJ VHF-1L VOLUME	1	1.58	0	10	0	100	0	0	20	0	0
		2	2.15	0	10	0	100	0	0	20	0	0
		3	1.58	0	10	100	0	0	0	20	0	0
		4	2.15	0	10	100	0	0	0	20	0	0
10	C5 SET VHF-1 COMM TFR SW TO LEFT	1	1.45	0	100	0	100	0	0	20	0	0
		2	1.45	0	100	100	0	0	0	20	0	0
10	C6 SET VHF-1 COMM TFR SW TO RIGHT	1	1.45	0	100	0	100	0	0	20	0	0
		2	1.45	0	100	100	0	0	0	20	0	0
10	C7 MON VHF-1R FREQ IND	1	.77	0	100	0	0	0	0	20	0	0
		2	3.64	0	100	0	0	0	0	20	0	0
		3	4.51	0	100	0	0	0	0	20	0	0
		4	5.94	0	100	0	0	0	0	20	0	0
10	C8 SET VHF-1R FREQ- WHOLE NUMBERS	1	2.05	0	10	0	100	0	0	20	0	0
		2	2.93	0	10	0	100	0	0	20	0	0
		3	2.05	0	10	100	0	0	0	20	0	0
		4	2.97	0	10	100	0	0	0	20	0	0
10	C9 SET VHF-1R FREQ- FRACTIONS	1	1.58	0	10	0	100	0	0	20	0	0
		2	1.97	0	10	100	0	0	0	20	0	0
10	C10 ADJ VHF-1R VOLUME	1	1.58	0	0	100	0	0	0	20	0	0
		2	2.18	0	50	0	100	0	0	20	0	0
		3	1.58	0	0	100	0	0	0	20	0	0
		4	2.18	0	50	100	0	0	0	20	0	0
10	C11 SET COMM 1 MIC SEL SW TO VHF-1	1	2.71	0	100	0	100	0	0	20	0	0
		2	2.60	0	100	100	0	0	0	20	0	0
10	C12 SET COMM 1 VHF-1 COMM RECVR SW TO ON	1	2.21	0	100	0	100	0	0	20	0	0
		2	2.34	0	100	100	0	0	0	20	0	0
10	C13 SET COMM 1 VHF-1 COMM RECVR SW TO OFF	1	2.21	0	100	0	100	0	0	20	0	0
		2	2.34	0	100	100	0	0	0	20	0	0



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
10	14 ACT COMM 1 PUSH-TO-TALK SW	1	1.40	0	50	0	100	0	0	20	0	0
		2	1.39	0	50	100	0	0	0	20	0	0
		3	5.00	0	50	100	0	0	0	20	0	0
		4	12.00	0	50	100	0	0	0	20	0	0
10	15 COMM VIA VHF-1	1	5.00	0	0	0	0	0	0	0	0	0
		2	12.00	0	0	0	0	0	0	0	0	0
		3	1.70	0	0	0	0	0	0	0	0	0
		4	7.00	0	0	0	0	0	0	0	0	0
10	16 MON VHF-1 COMM AUDIO	1	12.00	0	0	0	0	0	0	0	0	0
		2	7.00	0	0	0	0	0	0	0	0	0
		3	6.00	0	0	0	0	0	0	0	0	0
		4	3.00	0	0	0	0	0	0	0	0	0
10	17 SET COMM 2 VHF-1 COMM RECVR SW TO ON	1	2.29	0	100	0	100	0	0	20	0	0
		2	2.27	0	100	100	0	0	0	20	0	0
10	18 SET COMM 2 VHF-1 COMM RECVR SW TO OFF	1	2.29	0	100	0	100	0	0	20	0	0
		2	2.27	0	100	100	0	0	0	20	0	0
10	19 SET COMM 2 MIC SEL SW TO VHF-1	1	2.79	0	100	0	100	0	0	20	0	0
		2	2.71	0	100	100	0	0	0	20	0	0
10	20 SET COMM 3 VHF-1 COMM RECVR SW TO ON	1	2.46	0	100	0	100	0	0	20	0	0
		2	2.45	0	100	100	0	0	0	20	0	0
10	21 SET COMM 3 VHF-1 COMM RECVR SW TO OFF	1	2.46	0	100	0	100	0	0	20	0	0
		2	2.45	0	100	100	0	0	0	20	0	0
10	22 SET COMM 3 MIC SEL SW TO VHF-1	1	2.97	0	100	0	100	0	0	20	0	0
		2	2.97	0	100	100	0	0	0	20	0	0
10	23 ACT COMM 1 PUSH-TO-TALK SW	1	1.70	0	0	100	0	0	0	20	0	0
		2	3.50	0	0	100	0	0	0	20	0	0
10	24 ACTUATE PUSH-TO-TALK SW ON CONTROL HAND-GRIP	1	*00.00	0	0	0	100	0	0	20	0	0
		2	1.70	0	0	0	100	0	0	20	0	0
		3	3.50	0	0	0	100	0	0	20	0	0
		4	3.00	0	0	0	100	0	0	20	0	0
10	25 COMM VIA VHF-1	1	3.50	0	0	0	0	0	0	0	0	0
		2	3.00	0	0	0	0	0	0	0	0	0
10	26 MON VHF-1 COMM AUDIO	1	5.00	0	0	0	0	0	0	0	0	0
		2	4.00	0	0	0	0	0	0	0	0	0
		3	24.00	0	0	0	0	0	0	0	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1R	01 MON VHF-2L FREQ IND	1	1.76	0	100	0	0	0	0	20	0	0
		2	4.55	0	100	0	0	0	0	20	0	0
		3	4.51	0	100	0	0	0	0	20	0	0
1R	02 SET VHF-2L FREQ - WHOLE NUMBERS	1	2.97	0	0	0	100	0	0	20	0	0
		2	2.93	0	0	100	0	0	0	20	0	0
1R	03 SET VHF-2L FREQ - FRACTIONS	1	1.58	0	0	0	100	0	0	20	0	0
		2	1.58	0	0	100	0	0	0	20	0	0
		3	1.97	0	0	100	0	0	0	20	0	0
1R	04 ADJ VHF-2L VOLUME	1	1.58	0	0	0	100	0	0	20	0	0
		2	2.97	0	50	0	100	0	0	20	0	0
		3	1.58	0	0	100	0	0	0	20	0	0
		4	2.97	0	50	100	0	0	0	20	0	0
1R	05 SET VHF-2 COMM TFR SW TO LEFT	1	1.47	0	100	0	100	0	0	20	0	0
		2	1.47	0	100	100	0	0	0	20	0	0
1R	06 SET VHF-2 COMM TFR SW TO RIGHT	1	1.47	0	100	0	100	0	0	20	0	0
		2	1.47	0	100	100	0	0	0	20	0	0
		3	1.97	0	100	100	0	0	0	20	0	0
1R	07 MON VHF-2R FREQ IND	1	1.77	0	100	0	0	0	0	20	0	0
		2	4.58	0	100	0	0	0	0	20	0	0
		3	4.48	0	100	0	0	0	0	20	0	0
1R	08 SET VHF-2R FREQ - WHOLE NUMBERS	1	2.03	0	0	0	100	0	0	20	0	0
		2	3.00	0	0	0	100	0	0	20	0	0
		3	2.03	0	0	100	0	0	0	20	0	0
		4	2.90	0	0	100	0	0	0	20	0	0
1R	09 SET VHF-2R FREQ - FRACTIONS	1	1.58	0	0	0	100	0	0	20	0	0
		2	1.58	0	0	100	0	0	0	20	0	0
		3	1.97	0	0	100	0	0	0	20	0	0
1R	10 ADJ VHF-2R VOLUME	1	1.58	0	0	0	100	0	0	20	0	0
		2	3.00	0	50	0	100	0	0	20	0	0
		3	1.58	0	0	100	0	0	0	20	0	0
		4	3.00	0	50	100	0	0	0	20	0	0
1R	11 SET COMM 2 MIC SEL SW TO VHF-2	1	2.79	0	100	0	100	0	0	20	0	0
		2	2.71	0	100	100	0	0	0	20	0	0
1R	12 SET COMM 2 VHF-2 COMM RECVR SW TO ON	1	1.43	0	100	0	100	0	0	20	0	0
		2	1.43	0	100	100	0	0	0	20	0	0
1R	13 SET COMM 2 VHF-2 COMM RECVR SW TO OFF	1	1.43	0	100	0	100	0	0	20	0	0
		2	1.43	0	100	100	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL	
1R	14	ACT COMM 2 PUSH-TO-TALK SW	1	1.41	0	50	0	100	0	0	20	0	0
			2	1.41	0	50	100	0	0	0	20	0	0
			3	5.50	0	50	100	0	0	0	20	0	0
			4	3.50	0	50	100	0	0	0	20	0	0
1R	15	COMM VIA VHF-2	1	3.70	0	0	0	0	0	0	0	0	0
			2	5.50	0	0	0	0	0	0	0	0	0
			3	3.50	0	0	0	0	0	0	0	0	0
			4	4.00	0	0	0	0	0	0	0	0	0
1R	16	MON VHF-2 COMM AUDIO	1	5.50	0	0	0	0	0	0	0	0	0
			2	3.50	0	0	0	0	0	0	0	0	0
			3	3.20	0	0	0	0	0	0	0	0	0
			4	1.00	0	0	0	0	0	0	0	0	0
1R	17	SET COMM 1 VHF-2 COMM RECVR SW TO ON	1	1.42	0	100	0	100	0	0	20	0	0
			2	1.42	0	100	100	0	0	0	20	0	0
1R	18	SET COMM 1 VHF-2 COMM RECVR SW TO OFF	1	1.42	0	100	0	100	0	0	20	0	0
			2	1.42	0	100	100	0	0	0	20	0	0
1R	19	SET COMM 1 MIC SEL SW TO VHF-2	1	2.71	0	100	0	100	0	0	20	0	0
			2	2.80	0	100	100	0	0	0	20	0	0
1R	20	SET COMM 3 VHF-2 COMM RECVR SW TO ON	1	1.43	0	100	0	100	0	0	20	0	0
			2	1.43	0	100	100	0	0	0	20	0	0
1R	21	SET COMM 3 VHF-2 COMM RECVR SW TO OFF	1	1.43	0	100	0	100	0	0	20	0	0
			2	1.43	0	100	100	0	0	0	20	0	0
1R	22	SET COMM 3 MIC SEL SW TO VHF-2	1	2.97	0	100	0	100	0	0	20	0	0
1R	23	ACT PUSH-TO-TALK SW ON CONTROL HANDGRIP	1	3.70	0	0	0	100	0	0	20	0	0
			2	4.80	0	0	0	100	0	0	20	0	0
			3	2.50	0	0	0	100	0	0	20	0	0
			4	1.50	0	0	0	100	0	0	20	0	0
1R	24	ACT PUSH-TO-TALK SW ON CONTROL HANDGRIP	1	1.70	0	0	0	100	0	0	20	0	0
			2	2.30	0	0	0	100	0	0	20	0	0
			3	3.10	0	0	0	100	0	0	20	0	0
			4	4.00	0	0	0	100	0	0	20	0	0
1R	25	ACT PUSH-TO-TALK SW ON CONTROL HANDGRIP	1	6.80	0	0	0	100	0	0	20	0	0
			2	4.40	0	0	0	100	0	0	20	0	0
			3	3.00	0	0	0	100	0	0	20	0	0
			4	6.00	0	0	0	100	0	0	20	0	0
1R	26	ACT PUSH-TO-TALK SW ON CONTROL HANDGRIP	1	4.20	0	0	0	100	0	0	20	0	0
			2	5.00	0	0	0	100	0	0	20	0	0
			3	2.70	0	0	0	100	0	0	20	0	0
			4	7.50	0	0	0	100	0	0	20	0	0
1R	27	ACT COMM 2 PUSH-TO-TALK SW	1	4.60	0	0	100	0	0	0	20	0	0
			2	1.70	0	0	100	0	0	0	20	0	0
			3	4.20	0	0	100	0	0	0	20	0	0
			4	4.00	0	0	100	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1R	28 ACT COMM 2 PUSH-TO-TALK SW	1	4.25	0	0	100	0	0	0	20	0	0
		2	5.00	0	0	100	0	0	0	20	0	0
1R	30 ACT PUSH-TO-TALK SW ON CONTROL HANDGRIP	1	4.50	0	0	0	100	0	0	20	0	0
		2	3.30	0	0	0	100	0	0	20	0	0
		3	4.23	0	0	0	100	0	0	20	0	0
		4	10.00	0	0	0	100	0	0	20	0	0
1R	32 MON VHF-2 COMM AUDIO	1	2.50	0	0	0	0	0	0	0	0	0
		2	6.00	0	0	0	0	0	0	0	0	0
		3	6.80	0	0	0	0	0	0	0	0	0
		4	7.00	0	0	0	0	0	0	0	0	0
1R	33 MON VHF-2 COMM AUDIO	1	9.00	0	0	0	0	0	0	0	0	0
		2	6.20	0	0	0	0	0	0	0	0	0
		3	1.70	0	0	0	0	0	0	0	0	0
		4	3.00	0	0	0	0	0	0	0	0	0
1R	34 MON VHF-2 COMM AUDIO	1	9.50	0	0	0	0	0	0	0	0	0
		2	4.30	0	0	0	0	0	0	0	0	0
		3	7.50	0	0	0	0	0	0	0	0	0
		4	4.50	0	0	0	0	0	0	0	0	0
1R	35 MON VHF-2 COMM AUDIO	1	8.00	0	0	0	0	0	0	0	0	0
		2	10.00	0	0	0	0	0	0	0	0	0
		3	30.00	0	0	0	0	0	0	0	0	0
1R	36 COMM VIA VHF-2	1	4.50	0	0	0	0	0	0	0	0	0
		2	2.50	0	0	0	0	0	0	0	0	0
		3	1.50	0	0	0	0	0	0	0	0	0
		4	1.70	0	0	0	0	0	0	0	0	0
1R	37 COMM VIA VHF-2	1	2.30	0	0	0	0	0	0	0	0	0
		2	3.10	0	0	0	0	0	0	0	0	0
		3	4.40	0	0	0	0	0	0	0	0	0
		4	3.00	0	0	0	0	0	0	0	0	0
1R	38 COMM VIA VHF-2	1	6.00	0	0	0	0	0	0	0	0	0
		2	4.20	0	0	0	0	0	0	0	0	0
		3	5.00	0	0	0	0	0	0	0	0	0
		4	2.70	0	0	0	0	0	0	0	0	0
1R	39 COMM VIA VHF-2	1	7.50	0	0	0	0	0	0	0	0	0
		2	3.10	0	0	0	0	0	0	0	0	0
		3	4.50	0	0	0	0	0	0	0	0	0
		4	5.30	0	0	0	0	0	0	0	0	0
1R	40 COMM VIA VHF-2	1	4.00	0	0	0	0	0	0	0	0	0
		2	4.25	0	0	0	0	0	0	0	0	0
		3	10.00	0	0	0	0	0	0	0	0	0
		4	5.50	0	0	0	0	0	0	0	0	0
1R	41 COMM VIA VHF-2R	1	6.80	0	0	0	0	0	0	0	0	0
		2	11.00	0	0	0	0	0	0	0	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL	
1R 42	ACT PUSH-TO-TALK SW ON CONTROL HANDGRIP	1	11.00	0	0	0	100	0	0	20	0	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
15	01 MON VHF-3L FREQ IND	1	.77	0	100	0	0	0	0	20	0	0
		2	5.00	0	100	0	0	0	0	20	0	0
		3	5.06	0	100	0	0	0	0	20	0	0
15	02 SET VHF-3L FREQ- WHOLE NUMBERS	1	3.03	0	0	0	100	0	0	20	0	0
		2	3.09	0	0	100	0	0	0	20	0	0
15	03 SET VHF-3L FREQ - FRACTIONS	1	1.97	0	0	0	100	0	0	20	0	0
		2	1.97	0	100	0	0	0	0	20	0	0
15	04 ADJ VHF-3L VOLUME	1	1.97	0	50	0	100	0	0	20	0	0
		2	3.03	0	50	0	100	0	0	20	0	0
		3	1.97	0	50	100	0	0	0	20	0	0
		4	3.09	0	50	100	0	0	0	20	0	0
15	05 SET VHF-3 COMM TFR SW TO LEFT	1	1.45	0	50	0	100	0	0	20	0	0
		2	1.45	0	50	100	0	0	0	20	0	0
15	06 SET VHF-3 COMM TFR SW TO RIGHT	1	1.45	0	50	0	100	0	0	20	0	0
		2	1.45	0	50	100	0	0	0	20	0	0
15	07 MON VHF-3R FREQ IND	1	.77	0	100	0	0	0	0	20	0	0
		2	5.01	0	100	0	0	0	0	20	0	0
		3	5.05	0	100	0	0	0	0	20	0	0
15	08 SET VHF-3R FREQ- WHOLE NUMBERS	1	2.05	0	0	0	100	0	0	20	0	0
		2	3.04	0	0	0	100	0	0	20	0	0
		3	2.05	0	0	100	0	0	0	20	0	0
		4	3.08	0	0	100	0	0	0	20	0	0
15	09 SET VHF-3R FREQ - FRACTIONS	1	1.97	0	0	0	100	0	0	20	0	0
		2	1.97	0	0	100	0	0	0	20	0	0
15	10 ADJ VHF-3R VOLUME	1	2.05	0	50	0	100	0	0	20	0	0
		2	3.04	0	50	0	100	0	0	20	0	0
		3	2.05	0	50	100	0	0	0	20	0	0
		4	3.08	0	50	100	0	0	0	20	0	0
15	11 SET COMM 3 MIC SEL SW TO VHF-1	1	2.97	0	100	0	100	0	0	20	0	0
		2	2.93	0	100	100	0	0	0	20	0	0
15	12 ACT COMM 3 PUSH-TO- TALK SW	1	1.41	0	50	0	100	0	0	20	0	0
		2	1.42	0	50	100	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
1T	01 SET LOUDSPEAKER TO ON	1	2.39	0	100	100	0	0	0	20	0	0
		2	2.39	0	100	0	100	0	0	20	0	0
1T	02 SET LOUDSPEAKER TO OFF	1	2.39	0	100	100	0	0	0	20	0	0
		2	2.39	0	100	0	100	0	0	20	0	0
1T	03 ADJUST LOUDSPEAKER VOLUME	1	2.11	0	100	100	0	0	0	20	0	0
		2	2.11	0	100	0	100	0	0	20	0	0
		3	3.04	0	100	100	0	0	0	20	0	0
		4	3.04	0	100	0	100	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
24	15	MON TKA SEL MODE LT GREEN - TKA SEL MODE ENGAGED	1	.77	0	100	0	0	0	0	20	0	0
24	16	MON TKA SEL MODE LT ORANGE - TKA SEL MODE ARMED	1	.77	0	100	0	0	0	0	20	0	0
24	17	MON TKA SEL MODE LT BLUE - TKA SEL MODE PRESELECTED	1	.77	0	100	0	0	0	0	20	0	0
24	18	MON TKA SEL MODE LT DARK - TKA SEL MODE DISENGAGED	1	.77	0	100	0	0	0	0	20	0	0
24	19	ROTATE TKA SEL KNOB	1	2.50	0	0	0	0	0	0	20	0	0
24	20	READ TKA SEL VALUE ON DIGITAL INDIC	1	1.11	0	100	0	0	0	0	20	0	0
24	21	PRESS FPA SEL MODE SW	1	1.40	0	100	0	100	0	0	20	0	0
24	22	MONITOR FPA SEL MODE LT GREEN - FPA SEL MODE ENGAGED	1	.77	0	100	0	0	0	0	20	0	0
24	23	MONITOR FPA SEL MODE LT ORANGE - FPA SEL MODE ARMED	1	.77	0	100	0	0	0	0	20	0	0
24	24	MONITOR FPA SEL MODE LT BLUE - FPA SEL MODE PRESELECTED	1	.77	0	100	0	0	0	0	20	0	0
24	25	MONITOR FPA SEL MODE LT DARK - FPA SEL MODE DISENGAGED	1	.77	0	100	0	0	0	0	20	0	0
24	26	ROTATE FPA SEL KNOB	1	2.45	0	100	0	100	0	0	20	0	0
24	27	READ FPA SEL VALUE ON DIGITAL INDIC	1	1.08	0	100	0	0	0	0	20	0	0
24	28	PRESS ALT ENG MODE S SW	1	1.42	0	100	0	100	0	0	20	0	0
24	29	MONITOR ALT ENG MODE LT GREEN - ALT ENG MODE ENGAGED	1	.78	0	100	0	0	0	0	20	0	0
24	30	MON ALT ENG MODE LT ORANGE - ALT ENG MODE ARMED	1	.78	0	100	0	0	0	0	20	0	0



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
2H	C1 PRESS ATT CWS MODE SW	1	1.35	0	100	0	100	0	0	20	0	0
		2	1.44	0	100	0	100	0	0	20	0	0
		3	1.44	0	100	100	0	0	0	20	0	0
2H	C2 MON ATT CWS MODE LT GREEN - ATT CWS ENGAGED	1	1.05	0	100	0	0	0	0	20	0	0
2H	C3 MON ATT CWS MODE LT DARK - ATT CWS DISENGAGED	1	1.05	0	100	0	0	0	0	20	0	0
2H	C4 PRESS VEL CWS MODE SW	1	2.09	0	100	0	100	0	0	20	0	0
		2	1.35	0	100	0	100	0	0	20	0	0
2H	C5 MON VEL CWS MODE LT GREEN - VEL CWS ENG	1	1.34	0	100	0	0	0	0	20	0	0
2H	C6 MON VEL CWS MODE LT DARK - VEL CWS DIS- ENGAGED	1	1.34	0	100	0	0	0	0	20	0	0
2H	C7 PRESS AUTO MODE SW	1	1.42	0	100	0	100	0	0	20	0	0
2H	C8 MON AUTO MODE LT GREEN - AUTO MODE ENGAGED	1	1.34	0	100	0	0	0	0	20	0	0
2H	C9 MON AUTO MODE LT DARK - AUTO MODE DISENGAGED	1	1.34	0	100	0	0	0	0	20	0	0
2H	C10 PRESS LAND MODE SW	1	2.13	0	100	0	100	0	0	20	0	0
		2	2.13	0	100	100	0	0	0	20	0	0
2H	C11 MON LAND MODE LT GREEN - LAND MODE ENGAGED	1	1.05	0	100	0	0	0	0	20	0	0
2H	C12 MON LAND MODE LT GRANGE - LAND MODE ARMED	1	1.05	0	100	0	0	0	0	20	0	0
2H	C13 MON LAND MODE LT DARK - LAND MODE DISENGAGED	1	1.05	0	100	0	0	0	0	20	0	0
2H	C14 PRESS TRA SEL MODE SW	1	1.41	0	100	0	100	0	0	20	0	0

TASK CODE	NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
					EV	IV	LH	RH	LF	RF	COG	AUD	VBL
24	31	MON ALT ENG MODE LT BLUE - ALT ENG MODE PRESELECTED	1	.78	0	100	0	0	0	0	20	0	0
24	32	MON ALT ENG MODE LT DARK - ALT ENG MODE DISENGAGED	1	.78	0	100	0	0	0	0	20	0	0
24	33	ROTATE ALT ENG KNOB	1	2.47	0	100	0	100	0	0	20	0	0
24	34	READ ALT ENG VALUE ON DIGITAL INDIC	1	1.06	0	100	0	0	0	0	20	0	0
24	35	PRESS HOR PATH MODE SW	1	1.37	0	100	0	100	0	0	20	0	0
			2	2.15	0	100	0	100	0	0	20	0	0
			3	1.72	0	100	0	100	0	0	20	0	0
24	36	MON HOR PATH MODE LT GREEN - HOR PATH MODE ENGAGED	1	.78	0	100	0	0	0	0	20	0	0
24	37	MON HOR PATH MODE LT ORANGE - HOR PATH MODE ARMED	1	.78	0	100	0	0	0	0	20	0	0
24	38	MON HOR PATH MODE LT DARK - HOR PATH MODE DISENGAGED	1	.78	0	100	0	0	0	0	20	0	0
24	39	PRESS VERT PATH MODE SW	1	1.36	0	100	0	100	0	0	20	0	0
24	40	MON VERT PATH MODE L GREEN - VERT PATH MODE ENGAGED	1	.78	0	100	0	0	0	0	20	0	0
24	41	MON VERT PATH MODE L ORANGE - VERT PATH MODE ARMED	1	.78	0	100	0	0	0	0	20	0	0
24	42	MON VERT PATH MODE LT DARK - VERT PATH MODE DISENGAGED	1	.78	0	100	0	0	0	0	20	0	0
24	43	PRESS CAS ENG MODE SW	1	.78	0	100	0	0	0	0	20	0	0
24	44	MON CAS ENG MODE LT GREEN - CAS MODE ENGAGED	1	.78	0	100	0	0	0	0	20	0	0
24	45	MON CAS ENG MODE LT BLUE - CAS ENG MODE PRESELECTED	1	.78	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
2H 46	MON CAS ENG MODE LT DARK - CAS ENG MODE DISENGAGED	1	.78	0	100	0	0	0	0	20	0	0
2H 47	ROTATE CAS ENF KNOB	1	2.45	0	100	0	0	0	0	20	0	0
2H 48	READ CAS ENG VALUE ON DIGITAL INDIC	1	1.04	0	100	0	0	0	0	20	0	0
2H 49	PRESS TIME PATH MODE SW	1	1.35	0	100	0	100	0	0	20	0	0
2H 50	MON TIME PATH MODE LT GREEN - TIME PATH MODE ENGAGED	1	.78	0	100	0	0	0	0	20	0	0
2H 51	MON TIME PATH MODE SW DARK - TIME PATH MODE DISENGAGED	1	.78	0	100	0	0	0	0	20	0	0
2H 52	ACT LEFT AGCS LIGHTS TEST SW	1	2.00	0	0	0	100	0	0	20	0	0
2H 53	MON AGCS PANEL LTS TEST	1	2.00	0	100	0	0	0	0	20	0	0
2H 54	ACT RIGHT AGCS LIGHTS TEST SW	1	2.00	0	0	0	100	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
2J 01	MON ROLL ATT INDIC	1	2.02	0	100	0	0	0	0	20	0	0
2J 02	MON PITCH ALTITUDE INDIC	1	1.12	0	100	0	0	0	0	20	0	0
		2	10.00	0	0	0	0	0	0	10	0	0
2J 03	MONITOR ALTITUDE DIGITAL CALLOUT	1	.78	0	100	0	0	0	0	20	0	0
2J 04	MON FLT PATH ACCEL INDIC	1	2.19	0	100	0	0	0	0	20	0	0
2J 05	MON FLT PATH ANGLE INDIC	1	2.19	0	100	0	0	0	0	20	0	0
2J 06	MON PITCH FLT DIREC	1	2.19	0	100	0	0	0	0	20	0	0
2J 07	MON ROLL FLT DIREC	1	2.19	0	100	0	0	0	0	20	0	0
2J 08	MON ACCEL COMMAND	1	2.19	0	100	0	0	0	0	20	0	0
2J 09	MON FLT PATH ANGLE COMMAND	1	2.19	0	100	0	0	0	0	20	0	0
2J 10	MON FLT PATH COMMAND TO NEXT WPT	1	2.19	0	100	0	0	0	0	20	0	0
2J 11	MON FLT PATH COMMAND TO DESTINATION IN 30 SECONDS	1	2.19	0	100	0	0	0	0	20	0	0
2J 12	MON WAYPOINT IDENTIS	1	2.19	0	100	0	0	0	0	20	0	0
2J 13	MON ILS HDX	1	2.19	0	100	0	0	0	0	20	0	0
2J 14	MON ILS CROSS	1	2.19	0	100	0	0	0	0	20	0	0
2J 15	MON TV VIDEO	1	2.19	0	100	0	0	0	0	20	0	0
2J 16	ACT EADI AUTO SW	1	2.13	0	100	0	100	0	0	20	0	0
		2	2.35	0	100	0	100	0	0	20	0	0
2J 17	SEL MAN EADI PITCH REF MODE/MON SW LT ON	1	2.13	0	100	0	100	0	0	20	0	0
2J 18	ROTATE PITCH REF KNOB TO SELECT PITCH	1	2.05	0	100	0	100	0	0	20	0	0
2J 19	MON PITCH REF INDIC	1	1.12	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL	
2J	20	ROTATE DH KNOB TO SELECT DH VALUE	1	2.44	0	0	0	100	0	0	20	0	0
2J	21	MON DH INDIC	1	1.11	0	100	0	0	0	0	20	0	0
			2	2.44	0	100	0	0	0	0	20	0	0
2J	22	MON FLASHING CENTER DOT ON EADI	1	2.27	0	100	0	0	0	0	20	0	0
2J	23	ACTUATE DH TEST SW	1	2.27	0	100	0	100	0	0	20	0	0
2J	24	MON 100 FT INDIC ON EADI	1	2.27	0	100	0	0	0	0	20	0	0
2J	25	SELECT LAND MODE	1	2.67	0	100	0	100	0	0	20	0	0
			2	2.67	0	100	100	0	0	0	20	0	0
2J	26	SELECT CRUISE MODE	1	2.67	0	100	0	100	0	0	20	0	0
			2	1.35	0	100	0	100	0	0	20	0	0
2J	27	SELECT TEST MODE	1	2.67	0	100	0	100	0	0	20	0	0
2J	28	MON EADI TEST PAT	1	2.67	0	100	0	0	0	0	20	0	0
2J	29	SELECT SPD ERR OPTIC	1	1.35	0	100	0	100	0	0	20	0	0
			2	2.15	0	100	0	100	0	0	20	0	0
2J	30	MON SPD ERR BAR	1	1.35	0	100	0	100	0	0	20	0	0
2J	SEL ILS OPTION	1	1.35	0	100	0	100	0	0	0	20	0	0
		2	2.15	0	100	0	100	0	0	0	20	0	0
		3	2.15	0	100	100	0	0	0	0	20	0	0
2J	SEL TV OPTION	1	2.15	0	100	0	100	0	0	0	20	0	0
		2	1.25	0	100	0	100	0	0	0	20	0	0
2J	SEL FPT DIR OPTION	1	2.15	0	100	0	100	0	0	0	20	0	0
		2	1.35	0	100	0	100	0	0	0	20	0	0
2J	SELECT V-NAV OPTION	1	1.32	0	100	0	100	0	0	0	20	0	0
		2	2.15	0	100	0	100	0	0	0	0	0	0
2J	SELECT RUNWAY OPTION	1	1.36	0	100	0	100	0	0	0	20	0	0
		2	2.15	0	100	0	100	0	0	0	20	0	0
2J	36	ADJ EADI BRIGHTNESS	1	2.00	0	100	0	100	0	0	20	0	0
2J	37	ADJ EADI CONTRAST	1	2.00	0	100	0	100	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL	
2K	C1	SEL TRACK UP OPTION	1	2.64	0	100	0	100	0	0	20	0	0
			2	1.97	0	100	0	100	0	0	20	0	0
			3	2.60	0	100	100	0	0	0	20	0	0
			4	2.67	0	100	100	0	0	0	20	0	0
2K	C2	SEL NORTH UP OPTION	1	2.64	0	100	0	100	0	0	20	0	0
			2	1.97	0	100	0	100	0	0	20	0	0
			3	2.00	0	100	100	0	0	0	20	0	0
			4	2.67	0	100	100	0	0	0	20	0	0
2K	C3	SEL TEST OPTION	1	2.64	0	100	0	100	0	0	20	0	0
			2	1.97	0	100	0	100	0	0	20	0	0
			3	2.60	0	100	100	0	0	0	20	0	0
			4	2.67	0	100	100	0	0	0	20	0	0
2K	C4	MON MFD TEST PATT	1	3.00	0	100	0	0	0	0	20	0	0
2K	C5	SEL 1 NM MAP SCALE	1	2.65	0	100	0	100	0	0	20	0	0
			2	1.92	0	100	0	100	0	0	20	0	0
			3	1.96	0	100	100	0	0	0	20	0	0
			4	2.68	0	100	100	0	0	0	20	0	0
2K	C6	SEL 2 NM MAP SCALE	1	2.65	0	100	0	100	0	0	20	0	0
			2	1.92	0	100	0	100	0	0	20	0	0
			3	1.96	0	100	100	0	0	0	20	0	0
			4	2.68	0	100	100	0	0	0	20	0	0
2K	C7	SEL 4 NM MAP SCALE	1	2.65	0	100	0	100	0	0	20	0	0
			2	1.92	0	100	0	100	0	0	20	0	0
			3	1.96	0	100	100	0	0	0	20	0	0
			4	2.68	0	100	100	0	0	0	20	0	0
2K	C8	SEL 8 NM MAP SCALE	1	2.65	0	100	0	100	0	0	20	0	0
			2	1.92	0	100	0	100	0	0	20	0	0
			3	1.96	0	100	100	0	0	0	20	0	0
			4	2.68	0	100	100	0	0	0	20	0	0
2K	C9	SEL 16 NM MAP SCALE	1	2.65	0	100	0	100	0	0	20	0	0
			2	1.92	0	100	0	100	0	0	20	0	0
			3	1.96	0	100	100	0	0	0	20	0	0
			4	2.68	0	100	100	0	0	0	20	0	0
2K	C10	SEL 32 NM MAP SCALE	1	2.68	0	100	0	100	0	0	20	0	0
			2	1.92	0	100	0	100	0	0	20	0	0
			3	1.96	0	100	100	0	0	0	20	0	0
			4	2.68	0	100	100	0	0	0	20	0	0
2K	C11	MON MAP SCALE CALLED	1	.83	0	100	0	0	0	0	20	0	0
2K	C12	MON 1 NM MAP VIDEO	1	2.27	0	100	0	0	0	0	20	0	0
2K	C13	MON 2 NM MAP VIDEO	1	2.27	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									VBL
				EV	IV	LH	RH	LF	RF	CDG	AUD		
2K 14	MON 4NM MAP VIDEO	1	2.27	0	100	0	0	0	0	20	0	0	
		2	10.00	0	10	0	0	0	0	10	0	0	
2K 15	MON 8 NM MAP VIDEO	1	2.27	0	100	0	0	0	0	20	0	0	
2K 16	MON 16 NM MAP VIDEO	1	2.27	0	100	0	0	0	0	20	0	0	
2K 17	MON 32 NM MAP VIDEO	1	2.27	0	100	0	0	0	0	20	0	0	
		2	17.00	0	100	0	0	0	0	80	0	0	
2K 18	SEL NAV AIDES OPTION	1	2.07	0	100	0	100	0	0	20	0	0	
		2	2.13	0	100	100	0	0	0	20	0	0	
		3	1.38	0	100	0	100	0	0	20	0	0	
		4	1.38	0	100	100	0	0	0	20	0	0	
2K 19	SEL TERRAINE OPTION	1	1.38	0	100	100	0	0	0	20	0	0	
		2	2.07	0	100	0	100	0	0	20	0	0	
		3	1.38	0	100	0	100	0	0	20	0	0	
		4	2.13	0	100	100	0	0	0	20	0	0	
2K 20	SEL AIRPORTS OPTION	1	1.37	0	100	100	0	0	0	20	0	0	
		2	2.07	0	100	0	100	0	0	20	0	0	
		3	1.38	0	100	0	100	0	0	20	0	0	
		4	2.13	0	100	100	0	0	0	20	0	0	
2K 21	SEL WPT ALT OPTION	1	1.46	0	100	0	100	0	0	20	0	0	
		2	2.07	0	100	0	100	0	0	20	0	0	
		3	1.38	0	100	100	0	0	0	20	0	0	
		4	2.13	0	100	100	0	0	0	20	0	0	
2K 22	SEL GRP OPTION	1	1.37	0	100	0	100	0	0	20	0	0	
		2	1.33	0	100	100	0	0	0	20	0	0	
		3	2.07	0	100	0	100	0	0	20	0	0	
		4	2.13	0	100	100	0	0	0	20	0	0	
2K 23	SEL T NAV OPTION	1	2.13	0	100	100	0	0	0	20	0	0	
		2	1.38	0	100	100	0	0	0	20	0	0	
		3	2.07	0	100	0	100	0	0	20	0	0	
		4	2.13	0	100	100	0	0	0	20	0	0	
2K 24	SEL ALT RANGE OPTION	1	1.38	0	100	100	0	0	0	20	0	0	
		2	2.07	0	100	100	0	0	0	20	0	0	
		3	2.13	0	100	0	100	0	0	20	0	0	
		4	1.38	0	100	0	100	0	0	20	0	0	
2K 25	SEL TFRND VECT OPTION	1	1.38	0	100	100	0	0	0	20	0	0	
		2	2.07	0	100	100	0	0	0	20	0	0	
		3	2.13	0	100	0	100	0	0	20	0	0	
		4	1.38	0	100	0	100	0	0	20	0	0	
2K 26	MON NV AIDES SYMBOLS	1	1.38	0	100	100	0	0	0	20	0	0	
2K 27	MON TERRAINE SYMBOLS	1	1.38	0	100	100	0	0	0	20	0	0	
2K 28	MON AIRPORT SYMBOLS	1	1.38	0	100	100	0	0	0	20	0	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
2K 29	MON WAYPOINT ALT WITH NAV AIDES SYM	1	1.38	0	100	100	0	0	0	20	0	0
2K 30	MON GEO REF PT SYM	1	1.38	0	100	100	0	0	0	20	0	0
2K 31	MON TIME BOX AND FUTURE PTS SYMBOLS	1	1.00	0	100	0	0	0	0	20	0	0
2K 32	MON ALT/RNG SYMBOLS	1	2.00	0	100	0	0	0	0	20	0	0
2K 33	DESELECT TERRAINE OPTION	1	1.38	0	100	0	100	0	0	20	0	0
		2	2.07	0	100	0	100	0	0	20	0	0
		3	1.38	0	100	100	0	0	0	20	0	0
		4	2.13	0	100	100	0	0	0	20	0	0
2K 34	DESELECT NAV AIDES OPTION	1	1.38	0	100	0	100	0	0	20	0	0
		2	2.07	0	100	0	100	0	0	20	0	0
		3	1.38	0	100	100	0	0	0	20	0	0
		4	2.13	0	100	100	0	0	0	20	0	0
2K 35	DESELECT AIRPORTS OPTION	1	1.38	0	100	0	100	0	0	20	0	0
		2	2.07	0	100	0	100	0	0	20	0	0
		3	1.38	0	100	100	0	0	0	20	0	0
		4	2.13	0	100	100	0	0	0	20	0	0
2K 37	DESELECT WPT ALT OPTION	1	1.38	0	100	0	100	0	0	20	0	0
		2	2.07	0	100	0	100	0	0	20	0	0
		3	1.38	0	100	100	0	0	0	20	0	0
		4	2.13	0	100	100	0	0	0	20	0	0
2K 38	DESELECT GRP OPTION	1	1.38	0	100	0	100	0	0	20	0	0
		2	2.07	0	100	0	100	0	0	20	0	0
		3	1.38	0	100	100	0	0	0	20	0	0
		4	2.13	0	100	100	0	0	0	20	0	0
2K 39	DESELECT T NAV OPTION	1	1.38	0	100	0	100	0	0	20	0	0
		2	2.07	0	100	0	100	0	0	20	0	0
2K 40	DESELECT ALT RANGE OPTION	1	1.38	0	100	0	100	0	0	20	0	0
		2	2.07	0	100	0	100	0	0	20	0	0
		3	1.38	0	100	100	0	0	0	20	0	0
		4	2.13	0	100	100	0	0	0	20	0	0
2K 41	DESELECT TREND VEC OPTION	1	1.38	0	100	0	100	0	0	20	0	0
		2	2.07	0	100	0	100	0	0	20	0	0
		3	1.38	0	100	100	0	0	0	20	0	0
		4	2.13	0	100	100	0	0	0	20	0	0
2K 42	MON HOLDING PATTERN SYMBOL	1	1.38	0	100	0	100	0	0	20	0	0
2K 43	MON ADIZ BDRY SYM	1	1.38	0	100	0	100	0	0	20	0	0
2K 44	MON FIR BDRY SYMBOL	1	1.38	0	100	0	100	0	0	20	0	0



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
2K 45	MON OFFSET FLT PATH SYMBOLS	1	1.38	0	100	0	100	0	0	20	0	0
2K 46	MON STRAIGHT TREND VECTOR SYMBOL	1	10.00	0	10	0	0	0	0	10	0	0
2K 47	MON TRACK ANGLE SYM	1	10.00	0	10	0	0	0	0	10	0	0
2K 48	MON AGCS MODE INDIC	1	.83	0	100	0	0	0	0	20	0	0
2K 49	MON GROUND SPEED INC	1	.79	0	100	0	0	0	0	20	0	0
2K 50	MON NAV MODE INDIC	1	.79	0	100	0	0	0	0	20	0	0
2K 51	MON WIND DIREC/VEL INDIC	1	.79	0	100	0	0	0	0	20	0	0
2K 52	MON FTL PATH SYMBOL	1	10.00	0	10	0	0	0	0	10	0	0
2K 53	MON HDG POINTER AND TAPE	1	2.03	0	100	0	0	0	0	20	0	0
2K 54	ADJ MFD BRIGHTNESS	1	2.00	0	100	0	100	0	0	20	0	0
2K 55	ADJ MFD CONTRAST	1	2.00	0	100	0	100	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
2L 01	RESET T/A/M SEL SW	1	2.67	0	100	0	100	0	0	20	0	0
2L 02	ADJ NCDU DIM CONT	1	2.29	0	100	0	100	0	0	20	0	0
2L 03	MON NCDU ALERT LT ON	1	2.08	0	100	0	0	0	0	20	0	0
2L 04	MON NCDU ALERT LT	1	2.08	0	100	0	0	0	0	20	0	0
2L 05	MON NCDU FAIL LT ON	1	2.08	0	100	0	0	0	0	20	0	0
2L 06	MON NCDU FAIL LT OFF	1	2.08	0	100	0	0	0	0	20	0	0
2L 07	MON INITIILIZE MODE DATA	1	2.34	0	100	0	0	0	0	20	0	0
		2	2.05	0	100	0	0	0	0	20	0	0
		3	4.00	0	100	0	0	0	0	20	0	0
2L 08	MON ATC CLR MODE DATA	1	2.34	0	100	0	0	0	0	20	0	0
		2	2.08	0	100	0	0	0	0	20	0	0
2L 09	MON FLT PLN 1 MODE DATA	1	2.34	0	100	0	0	0	0	20	0	0
		2	2.08	0	100	0	0	0	0	20	0	0
2L 10	MON FLT PLN 2 MODE DATA	1	2.34	0	100	0	0	0	0	20	0	0
		2	2.08	0	100	0	0	0	0	20	0	0
2L 11	MON NAV DATA 1 MODE DATA	1	2.34	0	100	0	0	0	0	20	0	0
		2	2.06	0	100	0	0	0	0	20	0	0
2L 12	MON NAV DATA 2 MODE DATA	1	2.34	0	100	0	0	0	0	20	0	0
		2	2.06	0	100	0	0	0	0	20	0	0
2L 13	MON NAV DATA 3 MODE DATA	1	2.34	0	100	0	0	0	0	20	0	0
		2	2.06	0	100	0	0	0	0	20	0	0
2L 14	MON SEL 1 MODE DATA	1	2.34	0	100	0	0	0	0	20	0	0
		2	2.08	0	100	0	0	0	0	20	0	0
2L 15	MON SEL 2 MODE DATA	1	2.34	0	100	0	0	0	0	20	0	0
		2	2.08	0	100	0	0	0	0	20	0	0
2L 16	MON LOCK JP 1 STATUS DATA	1	2.34	0	100	0	0	0	0	20	0	0
		2	2.08	0	100	0	0	0	0	20	0	0
		3	7.00	0	100	0	0	0	0	20	0	0
2L 17	MON LOCK-JP 2 ROUTE DATA	1	2.34	0	100	0	0	0	0	20	0	0
		2	2.08	0	100	0	0	0	0	20	0	0
2L 18	MON LOCK-JP 3 AIRPPT DATA	1	2.34	0	100	0	0	0	0	20	0	0
		2	2.08	0	100	0	0	0	0	20	0	0
2L 19	MON LINE 8 MESSAGE	1	2.34	0	100	0	0	0	0	20	0	0
		2	2.06	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
2L 20	PRESS ENT KEY	1	1.47	0	100	C	100	0	0	20	0	0
		2	1.51	0	100	C	100	0	0	20	0	0
		3	1.35	0	100	C	100	0	0	20	0	0
2L 21	PRESS EXEC KEY	1	1.42	0	100	C	100	0	0	20	0	0
		2	1.46	0	100	0	100	0	0	20	0	0
		3	1.35	0	100	C	100	0	0	20	0	0
		4	1.52	0	100	0	100	0	0	20	0	0
2L 22	PRESS REJ KEY	1	1.53	C	100	0	100	0	0	20	0	0
		2	1.35	0	100	C	100	0	0	20	0	0
2L 23	PRESS CLR KEY	1	1.53	0	100	0	100	0	0	20	0	0
		2	1.35	C	100	C	100	0	0	20	0	0
2L 24	PRESS UP KEY	1	1.50	0	100	C	100	0	0	20	0	0
		2	1.32	0	100	0	100	0	0	20	0	0
2L 25	PRESS DOWN KEY	1	1.50	0	100	C	100	0	0	20	0	0
		2	1.32	0	100	C	100	0	0	20	0	0
2L 26	PRESS NO.1 KEY	1	1.45	C	100	0	100	0	0	20	0	0
		2	1.41	C	100	C	100	0	0	20	0	0
		3	1.35	C	100	C	100	0	0	20	0	0
2L 27	PRESS NO.2 KEY	1	1.35	0	100	C	100	0	0	20	0	0
		2	1.48	0	100	C	100	0	0	20	0	0
2L 28	PRESS NO.3 KEY	1	1.35	0	100	C	100	0	0	20	0	0
		2	1.45	0	100	C	100	0	0	20	0	0
2L 29	PRESS NO.4 KEY	1	1.35	0	100	C	100	0	0	20	0	0
		2	1.46	0	100	C	100	0	0	20	0	0
2L 30	PRESS NO.5 KEY	1	1.35	0	100	C	100	0	0	20	0	0
		2	1.46	0	100	C	100	0	0	20	0	0
2L 31	PRESS NO.6 KEY	1	1.35	0	100	C	100	0	0	20	0	0
		2	1.44	0	100	C	100	0	0	20	0	0
2L 32	PRESS NO.7 KEY	1	1.35	0	100	C	100	0	0	20	0	0
		2	1.46	0	100	C	100	0	0	20	0	0
2L 33	PRESS NO.8 KEY	1	1.44	0	100	C	100	0	0	20	0	0
		2	1.35	0	100	C	100	0	0	20	0	0
2L 34	PRESS NO.9 KEY	1	1.35	0	100	C	100	0	0	20	0	0
		2	1.46	0	100	C	100	0	0	20	0	0
2L 35	PRESS NO.0 KEY	1	1.35	0	100	C	100	0	0	20	0	0
		2	1.46	0	100	C	100	0	0	20	0	0
2L 36	PRESS . (DECIMAL PT) KEY	1	1.35	0	100	C	100	0	0	20	0	0
		2	1.46	0	100	C	100	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
2L 37	PRESS A/WPT KEY	1	1.35	0	100	0	100	0	0	20	0	0
		2	1.46	0	100	0	100	0	0	20	0	0
2L 38	PRESS B/AWY KEY	1	1.35	0	100	0	100	0	0	20	0	0
		2	1.46	0	100	0	100	0	0	20	0	0
2L 39	PRESS C KEY	1	1.38	0	100	0	100	0	0	20	0	0
		2	1.46	0	100	0	100	0	0	20	0	0
2L 40	PRESS D KEY	1	1.35	0	100	0	100	0	0	20	0	0
		2	1.32	0	100	0	100	0	0	20	0	0
		3	1.46	0	100	0	100	0	0	0	0	0
2L 41	PRESS E KEY	1	1.35	0	100	0	100	0	0	20	0	0
		2	1.46	0	100	0	100	0	0	20	0	0
2L 42	PRESS F/F-L KEY	1	1.35	0	100	0	100	0	0	20	0	0
		2	1.46	0	100	0	100	0	0	20	0	0
2L 43	PRESS G/ALT KEY	1	1.35	0	100	0	100	0	0	20	0	0
		2	1.46	0	100	0	100	0	0	20	0	0
2L 44	PRESS H/RTE KEY	1	1.48	0	100	0	100	0	0	20	0	0
		2	1.35	0	100	0	100	0	0	20	0	0
2L 45	PRESS I/RWY KEY	1	1.45	0	100	0	100	0	0	20	0	0
		2	1.35	0	100	0	100	0	0	20	0	0
2L 46	PRESS J KEY	1	1.35	0	100	0	100	0	0	20	0	0
		2	1.46	0	100	0	100	0	0	20	0	0
2L 47	PRESS K KEY	1	1.35	0	100	0	100	0	0	20	0	0
		2	1.46	0	100	0	100	0	0	20	0	0
2L 48	PRESS L KEY	1	1.35	0	100	0	100	0	0	20	0	0
		2	1.46	0	100	0	100	0	0	20	0	0
2L 49	PRESS M/CS KEY	1	1.47	0	100	0	100	0	0	20	0	0
		2	1.35	0	100	0	100	0	0	20	0	0
2L 50	PRESS N KEY	1	1.41	0	100	0	100	0	0	20	0	0
		2	1.35	0	100	0	100	0	0	20	0	0
2L 51	PRESS O/SID KEY	1	1.35	0	100	0	100	0	0	20	0	0
		2	1.46	0	100	0	100	0	0	20	0	0
2L 52	PRESS P/STAR KEY	1	1.35	0	100	0	100	0	0	20	0	0
		2	1.46	0	100	0	100	0	0	20	0	0
2L 53	PRESS Q KEY	1	1.35	0	100	0	100	0	0	20	0	0
		2	1.46	0	100	0	100	0	0	20	0	0
2L 54	PRESS R KEY	1	1.35	0	100	0	100	0	0	20	0	0
		2	1.46	0	100	0	100	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
2L 55	PRESS S KEY	1	1.35	0	100	C	100	0	0	20	0	0
		2	1.46	0	100	C	100	0	0	20	0	0
2L 56	PRESS T/PTA KEY	1	1.35	0	100	C	100	0	0	20	0	0
		2	1.46	0	100	C	100	0	0	20	0	0
2L 57	PRESS U KEY	1	1.36	0	100	C	100	0	0	20	0	0
		2	1.46	0	100	C	100	0	0	20	0	0
2L 58	PRESS V KEY	1	1.35	0	100	C	100	0	0	20	0	0
		2	1.46	0	100	C	100	0	0	20	0	0
2L 59	PRESS W KEY	1	1.35	0	100	C	100	0	0	20	0	0
		2	1.46	0	100	C	100	0	0	20	0	0
2L 60	PRESS X KEY	1	1.35	0	100	C	100	0	0	20	0	0
		2	1.46	0	100	C	100	0	0	20	0	0
2L 61	PRESS Y KEY	1	1.35	0	100	C	100	0	0	20	0	0
		2	1.46	0	100	C	100	0	0	20	0	0
2L 62	PRESS Z KEY	1	1.35	0	100	C	100	0	0	20	0	0
		2	1.46	0	100	C	100	0	0	20	0	0
2L 63	PRESS INIT KEY	1	1.48	0	100	C	100	0	0	20	0	0
		2	1.35	0	100	C	100	0	0	20	0	0
2L 64	PRESS ATC CLR KEY	1	2.03	0	100	C	100	0	0	20	0	0
		2	1.35	0	100	C	100	0	0	20	0	0
		3	1.46	0	100	C	100	0	0	20	0	0
2L 65	PRESS FLT PLN KEY	1	2.03	0	100	C	100	0	0	20	0	0
		2	1.40	0	100	C	100	0	0	20	0	0
		3	1.35	0	100	C	100	0	0	20	0	0
2L 66	PRESS NAV DATA KEY	1	2.03	0	100	C	100	0	0	20	0	0
		2	1.46	0	100	C	100	0	0	20	0	0
		3	1.35	0	100	C	100	0	0	20	0	0
2L 67	PRESS SEL KEY	1	2.03	0	100	C	100	0	0	20	0	0
		2	1.39	0	100	C	100	0	0	20	0	0
		3	1.46	0	100	C	100	0	0	20	0	0
2L 68	PRESS LOCK-UP KEY	1	2.03	0	100	C	100	0	0	20	0	0
		2	1.39	0	100	C	100	0	0	20	0	0
		3	1.46	0	100	C	100	0	0	20	0	0
2L 69	MON NCDA TEST FORMAT	1	5.00	0	100	C	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
3A	01 MONITOR INDICATED AIRSPEED INDIC	1	2.00	0	100	0	0	0	0	20	0	0
		2	2.05	0	100	0	0	0	0	20	0	0
		3	2.37	0	100	0	0	0	0	20	0	0
		4	2.11	0	100	0	0	0	0	20	0	0
3A	02 SET V1 BUG	1	2.57	0	20	100	0	0	0	20	0	0
		2	5.00	0	20	100	0	0	0	20	0	0
		3	2.57	0	20	0	100	0	0	20	0	0
3A	03 MON IAS PDINTER PASSING V1 BUG	2	2.05	0	100	0	0	0	0	20	0	0
		3	2.37	0	100	0	0	0	0	20	0	0
		4	2.11	0	100	0	0	0	0	20	0	0
3A	04 MON V1 BUG SETTING	1	2.57	0	80	0	0	0	0	20	0	0
		2	5.00	0	80	0	0	0	0	20	0	0
3A	05 SET V-REF BUG	1	5.00	0	20	100	0	0	0	20	0	0
		2	2.57	0	20	100	0	0	0	20	0	0
		3	2.57	0	20	0	100	0	0	20	0	0
3A	06 MON IAS PDINTER PASSING V-REF BUG	1	2.00	0	100	0	0	0	0	20	0	0
		2	2.05	0	100	0	0	0	0	20	0	0
		3	2.37	0	100	0	0	0	0	20	0	0
		4	2.11	0	100	0	0	0	0	20	0	0
3A	07 MON V-REF BUG SETTING	1	5.00	0	80	0	0	0	0	20	0	0
		2	2.57	0	80	0	0	0	0	20	0	0
		3	2.37	0	80	0	0	0	0	20	0	0
3A	08 MON IAS PDINTER OVERLAPPING V-MO INDIC	1	2.00	0	100	0	0	0	0	20	0	0
		2	2.05	0	100	0	0	0	0	20	0	0
		3	2.37	0	100	0	0	0	0	20	0	0
		4	2.11	0	100	0	0	0	0	20	0	0
3A	09 MON IAS 80 KNOTS	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.11	0	100	0	0	0	0	20	0	0
		3	2.37	0	100	0	0	0	0	20	0	0
3A	10 MONITOR AIRSPEED INDIC	1	10.00	0	10	0	0	0	0	12	0	0
		2	5.00	0	10	0	0	0	0	12	0	0
		3	30.00	0	10	0	0	0	0	12	0	0
		4	60.00	0	10	0	0	0	0	12	0	0
3A	11 MONITOR AIRSPEED INDIC	1	300.00	0	10	0	0	0	0	12	0	0
		2	120.00	0	10	0	0	0	0	12	0	0
		3	90.00	0	10	0	0	0	0	12	0	0
3A	12 F.O. CHECK CAPT'S V-REF BUG SETTING	1	3.00	0	100	0	0	0	0	20	0	0
3A	13 CAPT CHECK F.O.SS V-REF BUG SETTING	1	3.00	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
3F	C1 MON MACH NO INDIC	1	2.00	0	100	0	0	0	0	0	20	0	0
		2	2.05	0	100	0	0	0	0	0	20	0	0
		3	2.37	0	10	0	0	0	0	10	0	0	
		4	2.11	0	100	0	0	0	0	20	0	0	
3F	C2 MON MACH AIRSPEED WARNING CLACKER	1	2.00	0	0	0	0	0	0	20	100	0	
3F	O3 ACTUATE MACH AIRSPD TEST SW	1	2.69	0	100	100	0	0	0	20	0	0	
		2	2.69	0	100	0	100	0	0	20	0	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
3H	01 SET ALTIMETER SW TO ON	1	2.10	0	100	100	0	0	0	0	20	0	0
		2	2.10	0	100	0	100	0	0	0	20	0	0
3H	02 MONITOR CORRECTED BARO ALTITUDE INDIC	1	2.05	0	10	0	0	0	0	0	20	0	0
		2	.77	0	100	0	0	0	0	0	20	0	0
		3	2.13	0	100	0	0	0	0	0	20	0	0
		4	2.37	0	100	0	0	0	0	0	20	0	0
3H	03 SET ALTIMETER BARO SETTING CONTROL	1	5.00	0	10	100	0	0	0	0	20	0	0
		2	2.65	0	10	0	100	0	0	0	20	0	0
		3	2.65	0	10	100	0	0	0	0	20	0	0
		4	5.00	0	10	0	100	0	0	0	20	0	0
3H	04 MONITOR ALTIMETER BARO SETTING INDIC	1	.77	0	90	0	0	0	0	0	20	0	0
		2	2.37	0	90	0	0	0	0	0	20	0	0
		3	2.65	0	90	0	0	0	0	0	20	0	0
		4	5.00	0	90	0	0	0	0	0	20	0	0
3H	05 F.O. CHECK CAPT'S ALTIMETER BARO SET AND INDICATED ALTI- TUD	1	3.00	0	100	0	0	0	0	0	20	0	0



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
3J	C1 MON RADIO ALTIMETER ALTITUDE INDIC	1	2.15	0	100	0	0	0	0	20	0	0
		2	2.23	0	100	0	0	0	0	20	0	0
3J	C2 MON RADIO ALTIMETER WARNING FLAG IN VIEW	1	2.15	0	100	0	0	0	0	20	0	0
		2	2.23	0	100	0	0	0	0	20	0	0
3J	C3 MON RADIO ALTIMETER WARNING FLAG OUT OF VIEW	1	2.15	0	100	0	0	0	0	20	0	0
		2	2.23	0	100	0	0	0	0	20	0	0
3J	C4 ADJUST RADIO ALTI- METER MIN DECISION ALT CURSOR CONT	1	2.65	0	100	100	0	0	0	20	0	0
		2	2.68	0	100	0	100	0	0	20	0	0
3J	C5 MON RADIO ALTIMETER MIN DECISION ALT CURSOR	1	2.15	0	100	0	0	0	0	20	0	0
		2	2.23	0	100	0	0	0	0	20	0	0
3J	C6 ACTUATOR RADIO ALT TEST SW	1	1.45	0	100	100	0	0	0	20	0	0
		2	2.03	0	100	100	0	0	0	20	0	0
		3	1.45	0	100	0	100	0	0	20	0	0
		4	2.02	0	100	0	100	0	0	20	0	0
3J	C7 MON RADIO ALT TEST ALT INDIC	1	2.15	0	100	0	0	0	0	20	0	0
		2	2.23	0	100	0	0	0	0	20	0	0
3J	C8 MON RADIO ALT MDA LT CN	1	2.15	0	100	0	0	0	0	20	0	0
		2	2.23	0	100	0	0	0	0	20	0	0
3J	C9 MON RADIO ALT MDA LT OFF	1	2.15	0	100	0	0	0	0	20	0	0
		2	2.23	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
3K	01	SET NEW ALTITUDE ON ALTITUDE ALERT PNL	1	5.00	0	10	100	0	0	20	0	0
			2	2.72	0	10	0	100	0	0	20	0
3K	02	MON ALT ALERT ALT INDIC	1	.76	0	90	0	0	0	20	0	0
			2	2.72	0	90	0	0	0	20	0	0
			3	5.00	0	90	0	0	0	20	0	0
3K	03	SET ALT ALERT BARD	1	2.72	0	10	100	0	0	0	0	0
			2	5.00	0	10	100	0	0	0	0	0
3K	04	MON ALT ALERT BARD SET INDIC	1	.76	0	90	0	0	0	20	0	0
			2	2.72	0	90	0	0	0	20	0	0
			3	5.00	0	90	0	0	0	20	0	0
3K	05	MON ALT ALERT LT ON	1	2.16	0	100	0	0	0	20	0	0
3K	06	MON ALT ALERT LT OFF	1	2.16	0	100	0	0	0	20	0	0
3K	07	MON ALT ALERT ALARM	1	2.16	0	100	0	0	0	20	0	0

TASK CGDF NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
3L	01 MON VERTICAL SPEED INDIC	1	2.12	0	100	0	0	0	0	0	20	0	0
		2	2.03	0	100	0	0	0	0	0	20	0	0
		3	2.31	0	100	0	0	0	0	0	20	0	0
		4	2.24	0	100	0	0	0	0	0	20	0	0
3L	02 MON VERTICAL SPEED INDIC	1	10.00	0	10	0	0	0	0	0	12	0	0
		2	5.00	0	10	0	0	0	0	0	12	0	0
		3	30.00	0	10	0	0	0	0	0	12	0	0
		4	60.00	0	10	0	0	0	0	0	12	0	0
3L	03 MON VERTICAL SPEED INDIC	1	300.00	0	10	0	0	0	0	0	12	0	0
		2	120.00	0	10	0	0	0	0	0	12	0	0
		3	90.00	0	10	0	0	0	0	0	12	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
3N	01 WIND AND SET CLOCK	1	2.50	0	100	0	100	0	0	20	0	0
		2	2.50	0	100	100	0	0	0	20	0	0
3N	02 MONITOR CLOCK	1	2.10	0	100	0	0	0	0	20	0	0
		2	2.16	0	100	0	0	0	0	20	0	0
		3	2.24	0	100	0	0	0	0	20	0	0
		4	2.19	0	100	0	0	0	0	20	0	0
3N	03 START ELAPSED TIME INDIC	1	2.10	0	100	100	0	0	0	20	0	0
3N	04 RESET ELAPSED TIME INDIC	1	2.10	0	100	100	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
3P	01 ACTUATE GYRO CAGING SW	1	2.70	0	100	C	100	0	0	20	0	0
3P	02 SET GYRO PITCH TRIM	1	2.22	0	100	C	100	0	0	20	0	0
3P	03 MON STDBY HORIZON INDIC PWR FAIL FLAG	1	2.22	0	100	C	0	0	0	20	0	0
3P	04 MON AIRPLANE REF	1	2.22	0	100	C	0	0	0	20	0	0
3P	05 MONITOR BANK ANGLE INDIC	1	2.22	0	100	C	0	0	0	20	0	0
3P	06 MONITOR PITCH ANGLE INDIC	1	2.22	0	100	C	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
3R	10	MON PITCH ATTITUDE INDIC ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
			2	.21	0	100	0	0	0	0	20	0	0
			3	2.58	0	100	0	0	0	0	20	0	0
			4	10.00	0	10	0	0	0	0	12	0	0
3R	11	MON BANK ATTITUDE INDIC ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
			2	2.11	0	100	0	0	0	0	20	0	0
			3	2.58	0	100	0	0	0	0	20	0	0
3R	12	MON DECISION HGT LT ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
			2	.21	0	100	0	0	0	0	20	0	0
			3	2.58	0	100	0	0	0	0	20	0	0
3R	13	MON DECISION HGT LT OFF ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
			2	2.11	0	100	0	0	0	0	20	0	0
			3	2.58	0	100	0	0	0	0	20	0	0
3R	14	MON COMMAND BAR ATTITUDE INDIC ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
			2	2.11	0	100	0	0	0	0	20	0	0
			3	2.58	0	100	0	0	0	0	20	0	0
3R	15	MON ED FLAG IN VIEW ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
			2	2.11	0	100	0	0	0	0	20	0	0
			3	2.58	0	100	0	0	0	0	20	0	0
3R	16	MONITOR INDICATION OF DEVIATION FROM LOCALIZER ON FDI	1	2.21	0	100	0	0	0	0	20	0	0
			2	3.00	0	100	0	0	0	0	20	0	0
			3	10.00	0	50	0	0	0	0	20	0	0
			4	240.00	0	50	0	0	0	0	20	0	0
3R	17	MON SLIP INDIC ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
			2	2.11	0	100	0	0	0	0	20	0	0
			3	2.58	0	100	0	0	0	0	20	0	0
3R	18	MON ED FLAG OUT OF VIEW ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
			2	2.11	0	100	0	0	0	0	20	0	0
			3	2.58	0	100	0	0	0	0	20	0	0
3R	19	MON RUNWAY FLAG IN VIEW ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
			2	2.11	0	100	0	0	0	0	20	0	0
			3	2.58	0	100	0	0	0	0	20	0	0
3R	20	MON RUNWAY FLAG OUT OF VIEW ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
			2	2.11	0	100	0	0	0	0	20	0	0
			3	2.58	0	100	0	0	0	0	20	0	0
3R	21	MON RATE OF TURN FLAG ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
			2	2.11	0	100	0	0	0	0	20	0	0
			3	2.58	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
3R 22	MONITOR RUNWAY SYMBOL OUT OF VIEW ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.11	0	100	0	0	0	0	20	0	0
		3	2.58	0	100	0	0	0	0	20	0	0
3R 23	MONITOR ATTITUDE RELATIVE TO RUNWAY SYMBOL ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.11	0	100	0	0	0	0	20	0	0
		3	2.58	0	100	0	0	0	0	20	0	0
3R 24	ACTUATE FDI PRESS- TO-TEST SW	1	2.01	0	100	100	0	0	0	20	0	0
		2	1.81	0	100	0	100	0	0	20	0	0
3R 25	MON FDI TEST INDIC	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.11	0	100	0	0	0	0	20	0	0
		3	2.58	0	100	0	0	0	0	20	0	0
3R 26	MON GLIDE SLOPE FLAG OUT OF VIEW ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.11	0	100	0	0	0	0	20	0	0
		3	2.58	0	100	0	0	0	0	20	0	0
3R 27	MON GLIDE SLOPE FLAG IN VIEW ON ADI	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.11	0	100	0	0	0	0	20	0	0
		3	2.58	0	100	0	0	0	0	20	0	0
3R 28	MON GYRO FLAG IN VIEW ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.11	0	100	0	0	0	0	20	0	0
		3	2.58	0	100	0	0	0	0	20	0	0
3R 29	MON GYRO FLAG OUT OF VIEW ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.11	0	100	0	0	0	0	20	0	0
		3	2.58	0	100	0	0	0	0	20	0	0
3R 30	MON GLIDE SLOPE ATTITUDE INDIC ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.11	0	100	0	0	0	0	20	0	0
		3	2.58	0	100	0	0	0	0	20	0	0
3R 31	MON A/C ATTITUDE ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.11	0	100	0	0	0	0	20	0	0
		3	2.11	0	100	0	0	0	0	20	0	0
3R 32	SET PITCH TRIM CONT ON FDI	1	2.71	0	100	0	100	0	0	20	0	0
3R 33	MON RADIC ALT INDIC ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.11	0	100	0	0	0	0	20	0	0
		3	2.58	0	100	0	0	0	0	20	0	0
3R 34	MON RATE OF TURN INDIC ON FDI	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.11	0	100	0	0	0	0	20	0	0
		3	2.58	0	100	0	0	0	0	20	0	0
3R 35	MON SPEED POINTER AND COMMAND INDIC	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.11	0	100	0	0	0	0	20	0	0
		3	2.58	0	100	0	0	0	0	20	0	0
3R 40	MON FC VERT SPD TAPE	1	2.01	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
3R	41	SET FD PITCH MODE SEL TO ALT HOLD	1	2.92	0	100	0	100	0	0	20	0	0
3R	42	SET FD PITCH MODE SEL TO VERT SPEED MODE AND ADJUST VERT SPEED	1	2.92	0	100	0	100	0	0	20	0	0
3R	43	SET FD MODE SEL TO OFF	1	2.01	0	100	0	100	0	0	20	0	0
3R	44	SET FD MODE SEL TO HDG	1	2.01	0	100	0	100	0	0	20	0	0
3R	45	SET FD MODE SEL TO RAD	1	2.01	0	100	0	100	0	0	20	0	0
3R	46	SET FD MODE SEL TO BB	1	2.01	0	100	0	100	0	0	20	0	0
3R	47	CHECK THAT F.D. MODE SEL SW SET TO OFF	1	1.01	0	100	0	0	0	0	20	0	0
3R	48	CHECK THAT F.D. PITCH CONT SET TO FULL CLOCKWISE	1	2.25	0	100	0	0	0	0	20	0	0
			2	.98	0	100	0	0	0	0	20	0	0
3R	49	SET VHF/NAV SW TO NORMAL	1	2.53	0	100	0	100	0	0	20	0	0
3R	50	SET VHF/NAV SW TO NO.1	1	2.53	0	100	0	100	0	0	20	0	0
3R	51	SET VHF/NAV SW TO NO.2	1	2.53	0	100	0	100	0	0	20	0	0
3R	52	SET VERT GYRO SEL SW TO NO.1	1	1.46	0	100	100	0	0	0	20	0	0
			2	2.15	0	100	100	0	0	0	20	0	0
3R	53	SET VERT GYRO SEL SW TO NO.2	1	1.46	0	100	100	0	0	0	20	0	0
			2	2.15	0	100	100	0	0	0	20	0	0
3R	54	SET COMPUTER SEL SW TO NO.1	1	1.85	0	100	100	0	0	0	20	0	0
			2	2.14	0	100	100	0	0	0	20	0	0
			3	2.55	0	100	100	0	0	0	20	0	0
3R	55	SET COMPUTER SEL SW TO NO.2	1	1.85	0	100	100	0	0	0	20	0	0
			2	2.14	0	100	100	0	0	0	20	0	0
			3	2.55	0	100	100	0	0	0	20	0	0
3R	56	MON PITCH ATTITUDE INDIC ON FDI	1	5.00	0	10	0	0	0	0	12	0	0
			2	30.00	0	10	0	0	0	0	12	0	0
			3	60.00	0	10	0	0	0	0	12	0	0
			4	300.00	0	10	0	0	0	0	12	0	0



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL	
3R 57	MON PITCH ATTITUDE INDIC ON FDI	1	120.00	0	10	0	0	0	0	0	12	0	0
3R 58	MON A/C ATTITUDE RELATIVE TO ROLL COMMAND BAR ON FDI	1	10.00	0	10	0	0	0	0	0	12	0	0
3R 59	MON INITIAL MOVEMENT OF ROLL COMMAND BAR ON FDI	1	2.58	0	100	0	0	0	0	0	20	0	0
3R 60	MON INITIAL MOVEMENT OF GLIDE SLOPE COMMAND BAR ON FDI	1	2.58	0	100	0	0	0	0	0	20	0	0
3R 61	MON INDICATION OF DEVIATION FROM LOCALIZE AND GLIDE SLOPE ON FDI	1	180.00	0	50	0	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
35	01 MONITOR A/C HEADING RELATIVE TO SELECTED HDG ON CI	1	2.23	0	100	0	0	0	0	20	0	0
		2	10.00	0	10	0	0	0	0	12	0	0
		3	5.00	0	10	0	0	0	0	12	0	0
		4	30.00	0	10	0	0	0	0	12	0	0
35	02 MON COMPASS FLAG IN VIEW ON CI	1	2.23	0	100	0	0	0	0	20	0	0
		2	.78	0	100	0	0	0	0	20	0	0
35	03 MON COMPASS FLAG OUT OF VIEW ON CI	1	2.23	0	100	0	0	0	0	20	0	0
		2	.78	0	100	0	0	0	0	20	0	0
35	04 MON A/C POSITION RELATIVE TO SELECTED COURSE ON CI	1	2.10	0	100	0	0	0	0	20	0	0
		2	5.00	0	100	0	0	0	0	20	0	0
		3	10.00	0	50	0	0	0	0	20	0	0
		4	240.00	0	50	0	0	0	0	20	0	0
35	05 MON COURSE PTR IND ON CI	1	2.10	0	100	0	0	0	0	20	0	0
		2	2.23	0	100	0	0	0	0	20	0	0
35	06 MON L-C WARNING FLAG IN VIEW ON CI	1	2.23	0	100	0	0	0	0	20	0	0
		2	.78	0	100	0	0	0	0	20	0	0
35	07 MON L-C WARNING FLAG OUT OF VIEW ON CI	1	2.23	0	100	0	0	0	0	20	0	0
		2	.78	0	100	0	0	0	0	20	0	0
35	08 MON COURSE DIGITAL INDIC ON CI	1	2.23	0	90	0	0	0	0	20	0	0
		2	.78	0	90	0	0	0	0	20	0	0
35	09 MON GLIDE SLOPE FLAG IN VIEW ON CI	1	2.23	0	100	0	0	0	0	20	0	0
		2	.78	0	100	0	0	0	0	20	0	0
35	10 MON GLIDE SLOPE FLAG OUT OF VIEW ON CI	1	2.23	0	100	0	0	0	0	20	0	0
		2	.78	0	100	0	0	0	0	20	0	0
35	11 SET COURSE DIGITS AND POINTER ON CI USING COURSE CURSOR CENT	1	4.92	0	10	0	100	0	0	20	0	0
		2	2.87	0	10	0	100	0	0	20	0	0
		3	2.87	0	10	100	0	0	0	20	0	0
35	12 SET HEADING CURSOR ON CI USING HDG CUR- SOR CENT	1	5.00	0	10	0	100	0	0	20	0	0
		2	4.13	0	10	0	100	0	0	20	0	0
		3	2.55	0	10	0	100	0	0	20	0	0
		4	2.14	0	10	0	100	0	0	20	0	0
35	13 MON DEVIATION FROM GLIDE SCOPE ON CI	1	.78	0	100	0	0	0	0	20	0	0
		2	2.23	0	100	0	0	0	0	20	0	0
35	14 MON COMPASS HDG IND ON CI	1	.78	0	100	0	0	0	0	20	0	0
		2	2.23	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
3S	15 MONITOR A/C HEADING RELATIVE TO SELECTED HEADING ON CI	1	60.00	0	10	0	0	0	0	12	0	0
		2	300.00	0	10	0	0	0	0	12	0	0
		3	120.00	0	10	0	0	0	0	12	0	0
		4	90.00	0	10	0	0	0	0	12	0	0
3S	16 MON INDIC THAT A/C ABEAM OF MARKER AND ON HEADING	1	2.23	0	10	0	0	0	0	12	0	0
3S	17 MON A/C HEADING RELATIVE TO SELECTED COURSE ON CI	1	300.00	0	100	0	0	0	0	12	0	0
		2	90.00	0	10	0	0	0	0	12	0	0
		3	100.00	0	50	0	0	0	0	10	0	0
3S	18 SET COMPASS SEL SW TO NO.1	1	2.15	0	100	100	0	0	0	20	0	0
3S	19 SET COMPASS SEL SW TO NO.2	1	2.15	0	100	100	0	0	0	20	0	0
3S	20 MON INDIC OF MARKER FLY OVER ON CI	1	2.23	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
3U	G1 MON TOTAL AIR TEMP INDIC	1	2.25	0	100	C	C	0	0	20	0	0
		2	2.29	0	100	C	0	0	0	20	0	0
		3	1.17	0	100	C	0	0	0	20	0	0
		4	2.18	0	100	C	C	0	0	20	C	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME										
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL		
3V 01	MON GO AROUND ANNUN LT ON	1	1.21	0	100	0	0	0	0	20	0	0		
		2	.92	0	100	0	0	0	0	20	0	0		
3V 02	MON GO AROUND ANNUN LT OFF	1	1.21	0	100	0	0	0	0	20	0	0		
		2	.92	0	100	0	0	0	0	20	0	0		
3V 03	MON ALT HOLD ANNUN LT ON	1	1.21	0	100	0	0	0	0	20	0	0		
		2	.92	0	100	0	0	0	0	20	0	0		
3V 04	MON ALT HOLD ANNUN LT OFF	1	1.21	0	100	0	0	0	0	20	0	0		
		2	.92	0	100	0	0	0	0	20	0	0		
3V 05	MON VOR LOC ANNUN LT OFF	1	1.21	0	100	0	0	0	0	20	0	0		
		2	.92	0	100	0	0	0	0	20	0	0		
3V 06	MON VOR LOC ANNUN LT GREEN	1	1.21	0	100	0	0	0	0	20	0	0		
		2	.92	0	100	0	0	0	0	20	0	0		
3V 08	MON GLIDE SLOPE ANNUN LT AMBER	1	1.21	0	100	0	0	0	0	20	0	0		
		2	.92	0	100	0	0	0	0	20	0	0		
3V 09	MON GLIDE SLOPE ANNUN LT GREEN	1	1.21	0	100	0	0	0	0	20	0	0		
		2	.92	0	100	0	0	0	0	20	0	0		
3V 10	MON GLIDE SLOPE ANNUN LT OFF	1	1.21	0	100	0	0	0	0	20	0	0		
		2	.92	0	100	0	0	0	0	20	0	0		
3V 11	MONITOR OUTER MARKER LT ON AND AUDIBLE SIGNAL	1	1.91	0	100	0	0	0	0	20	100	0		
3V 12	MON OUTER MARKER LT OFF AND AUDIBLE SIG SILENT	1	1.91	0	0	0	0	0	0	20	100	0		
3V 13	MONITOR MIDDLE MARKER ANNUN LT ON AND AUDIBLE SIGNAL	1	1.91	0	100	0	0	0	0	20	100	0		
3V 14	MON MIDDLE MARKER ANNUN LT OFF AND AUDIBLE SIG SILENT	1	1.91	0	100	0	0	0	0	20	100	0		
3V 15	MON AIRWAYS MKR ANNUN LT FLASHING AND INTXPT AUDIBLE SIGNAL	1	1.91	0	100	0	0	0	0	20	100	0		
		2	.72	0	100	0	0	0	0	20	100	0		
3V 16	MON AIRWAYS MKR ANNUN LT ON STEADY AND STEADY AUDIBLE SIGNAL	1	1.91	0	100	0	0	0	0	20	100	0		
		2	.72	0	100	0	0	0	0	20	100	0		

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
3V	17	MON AIRWAYS MKR ANNUN LT OFF AND AUDIBLE SIG SILENT	1 2	1.91 .72	0 0	100 100	C C	C C	0 0	0 0	20 20	100 100	0 0
3V	18	SET MARKER SW TO LD	1	2.07	0	100	C	100	0	0	20	0	0
3V	19	SET MKR SW TO HI	1	2.07	0	100	C	100	0	0	20	0	0
3V	20	MON WINGS LEVEL LT ON GREEN	1 2	1.21 .92	0 0	100 100	0 C	0 C	0 0	0 0	20 20	0 0	C U
3V	21	MON WINGS LEVEL LT OFF	1 2	1.21 .92	0 0	100 100	C C	C C	0 0	0 0	20 20	0 0	0 0
3V	22	MON BACK BEAM LT ON GREEN	1 2	1.21 .92	0 0	100 100	C C	0 0	0 0	0 C	20 20	0 0	C C
3V	23	MON BACK BEAM LT OFF	1 2	1.21 .92	0 0	100 100	C C	C 0	0 0	0 0	20 20	0 0	C C
3V	24	MON HDG ON GREEN	1 2	1.21 .92	0 0	100 100	0 C	0 C	C 0	0 C	20 20	0 C	0 0
3V	25	MON HDG LT OFF	1 2	1.21 .92	0 0	100 100	C C	C C	0 0	0 0	20 20	0 0	C 0
3V	26	SET NO.2 COMM RECVR MKR SW TO ON	1 2	2.43 1.43	0 0	100 100	100 100	0 C	0 0	0 C	20 20	0 0	0 0
3V	27	SET NO.2 COMM RECVR MKR SW TO OFF	1 2	2.43 1.43	0 0	100 100	100 100	0 C	0 0	0 0	20 20	0 0	0 0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
3W	01 MON INST COMP POWER LT ON	1	2.32	0	100	0	0	0	0	20	0	0
3W	02 MON INST COMP POWER LT OFF	1	2.32	0	100	0	0	0	0	20	0	0
3W	03 MON INST COMP VERT GYRO LT ON	1	2.32	0	100	0	0	0	0	20	0	0
3W	04 MON INST COMP VERT GYRO LT OFF	1	2.32	0	100	0	0	0	0	20	0	0
3W	05 MON INST COMP G/S LT ON	1	2.32	0	100	0	0	0	0	0	0	0
3W	06 MON INST COMP G/S LT OFF	1	2.32	0	100	0	0	0	0	20	0	0
3W	07 MON INST COMP LOC LT ON	1	2.32	0	100	0	0	0	0	20	0	0
3W	08 MON INST COMP LOC LT OFF	1	2.32	0	100	0	0	0	0	20	0	0
3W	09 MON NAV WARNING LT ON	1 2 3	.93 .68 1.56	0 0 0	100 100 100	0 0 0	0 0 0	0 0 0	0 0 0	20 20 20	0 0 0	0 0 0
3W	10 MON NAV WARNING LT OFF	1 2 3	.93 .68 1.56	0 0 0	100 100 100	0 0 0	0 0 0	0 0 0	0 0 0	20 20 20	0 0 0	0 0 0

TASK CODE NO.	TASK NAME/DESCRIPTION	S 1 T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
3X 01	FOLD STANDBY COMPASS INTO VIEW	1	3.50	0	100	0	100	0	0	20	0	0
3X 02	MON STANDBY COMPASS HDG INDIC	1	2.00	0	100	0	0	0	0	0	0	0
3X 03	FOLD STANDBY COMPASS OUT OF VIEW	1	1.50	0	100	0	100	0	0	20	0	0



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
4A	01 SET FLT COUNT SYS A SW TO ON	1	3.33	0	100	0	100	0	0	20	0	0
4A	02 SET FLT COUNT SYS A SW TO OFF	7	3.33	0	100	0	100	0	0	20	0	0
4A	03 SET FLT COUNT SYS A SW TO STDBY RUD	1	3.33	0	100	0	100	0	0	20	0	0
4A	04 SET FLT COUNT SYS B SW TO ON	1	3.33	0	100	0	100	0	0	20	0	0
4A	05 SET FLT COUNT SYS B SW TO OFF	1	3.33	0	100	0	100	0	0	20	0	0
4A	06 SET FLT COUNT SYS B SW TO STDBY RUD	1	3.33	0	100	0	100	0	0	20	0	0
4A	07 MON FLT COUNT SYS A HYD LG PRESS LT ON	1 2 3	.66 1.21 .77	0 0 0	100 100 100	0 0 0	0 0 0	0 0 0	0 0 0	20 20 20	0 0 0	0 0 0
4A	08 MON FLT COUNT SYS A HYD LG PRESS LT OFF	1 2 3	.66 1.21 .77	0 0 0	100 100 100	0 0 0	0 0 0	0 0 0	0 0 0	20 20 20	0 0 0	0 0 0
4A	09 SET SPOILER SYS A SW TO ON	1	2.53	0	100	0	100	0	0	20	0	0
4A	10 SET SPOILER SYS A SW TO OFF	1	2.53	0	100	0	100	0	0	20	0	0
4A	11 SET SPOILER SYS B SW TO ON	1	2.53	0	100	0	100	0	0	20	0	0
4A	12 SET SPOILER SYS B SW TO OFF	1	2.53	0	100	0	100	0	0	20	0	0
4A	13 SET YAW DAMPER SW TO ON	1	2.68	0	100	0	100	0	0	20	0	0
4A	14 SET YAW DAMPER SW TO OFF	1	2.68	0	100	0	100	0	0	20	0	0
4A	15 MON FLT COUNT STDBY HYD LG QTY LT ON	1 2	1.26 .53	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
4A	16 MON FLT COUNT STDBY HYD LG QTY LT OFF	1 2	1.26 .53	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
4A	17 MON FLT COUNT STDBY HYD LG PRESS LT ON	1 2	.53 1.26	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
4A 18	MON FLT CONT STDBY HYD LO PRESS LT OFF	1	.53	0	100	C	0	0	0	20	0	0
		2	1.26	0	100	C	0	0	0	20	0	0
4A 19	MON FEEL DIFF PRESS LT ON	1	1.05	0	100	C	0	0	0	20	0	0
4A 20	MON FEEL DIFF PRESS LT OFF	1	1.05	0	100	C	C	0	0	20	0	0
4A 21	ACTUATE CWS FOR ROLL CONT	1	2.00	0	10	100	100	0	0	20	0	0
4A 22	ACTUATE CWS FOR PITCH CONT	1	2.00	0	10	100	100	0	0	20	0	0
4A 23	ACTUATE RUDDER PEDAL FOR HEADING/YAW CONT	1	3.00	0	10	C	C	100	100	20	0	0
		2	20.00	0	0	C	0	0	100	20	0	0
4A 24	ACTUATE CWS TO ROTATE FOR LIFTOFF	1	15.00	80	20	100	100	100	100	80	0	0
		2	5.00	0	0	100	100	100	100	80	0	0
4A 25	MON MASTER CAUTION	1	.56	0	100	0	0	0	0	20	0	0
4A 26	ACTUATE MASTER CAUT RESET SW	1	2.14	0	100	100	0	0	0	20	0	0
		2	2.14	0	100	0	100	0	0	20	0	0
4A 27	ACTUATE ANNUN PNL RECALL SW	1	1.93	0	100	100	0	0	0	20	0	0
		2	2.28	0	100	0	100	0	0	20	0	0
4A 28	ACTUATE FLT CONTROLS TO CHANGE HEADING	1	5.00	0	0	100	100	100	100	20	0	0
		2	10.00	0	0	50	50	100	100	20	0	0
		3	15.00	0	0	100	100	100	100	20	0	0
		4	20.00	0	0	100	100	100	100	20	0	0
4A 29	ACTUATE FLT CONTROLS TO CHANGE ALTITUDE	1	5.00	0	0	100	100	0	0	20	0	0
		2	10.00	0	0	50	50	0	0	20	0	0
		3	15.00	0	0	100	100	0	0	20	0	0
		4	20.00	0	0	100	100	0	0	20	0	0
4A 30	ACTUATE FLT CONTROLS TO ALIGN A/C WITH ATTITUDE INDICATED ON FD AND CI	1	5.00	0	0	100	100	100	100	20	0	0
		2	10.00	0	0	50	50	100	100	20	0	0
		3	15.00	0	0	100	100	100	100	20	0	0
		4	20.00	0	0	50	50	100	100	20	0	0
4A 31	MANUALLY CONTROL A/C	1	5.00	100	0	100	100	100	100	20	0	0
		2	10.00	100	0	100	100	100	100	20	0	0
		3	15.00	100	0	100	100	100	100	20	0	0
		4	20.00	100	0	100	100	100	100	20	0	0
4A 32	MON FLT CONT ANNUN LT ON	1	.56	0	100	0	0	0	0	20	0	0
4A 33	MON FLT CONT ANNUN LT OFF	1	.56	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S 1 T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
4A 34	MON MASTER CAUTION AND OVHD ANNUN LTS ON	1	.56	0	100	0	0	0	0	20	0	0
4A 35	MON OVHD ANNUN LT ON	1	.56	0	100	0	0	0	0	20	0	0
4A 36	MON OVHD ANNUN LT OFF	1	.56	0	100	0	0	0	0	20	0	0
4A 38	MON STALL WARNING STICK SHAKER	1	1.00	0	100	0	0	0	0	20	100	0
4A 39	SET STALL WARNING SW TO HTR OFF	1	3.23	0	100	0	100	0	0	20	0	0
		2	2.16	0	100	0	100	0	0	20	0	0
4A 40	SET STALL WARNING SW TO NORMAL	1	3.23	0	100	0	100	0	0	20	0	0
		2	2.16	0	100	0	100	0	0	20	0	0
4A 41	SET STALL WARNING SW TO TEST	1	3.23	0	100	0	100	0	0	20	0	0
		2	2.16	0	100	0	100	0	0	20	0	0
4A 42	MON STALL WARNING OFF LT ON	1	.55	0	100	0	0	0	0	20	0	0
		2	.32	0	100	0	0	0	0	20	0	0
4A 43	MON STALL WARNING OFF LT OFF	1	.55	0	100	0	0	0	0	20	0	0
		2	.32	0	100	0	0	0	0	20	0	0
4A 44	SET YAW DAMPER TEST SW TO L	1	2.48	0	100	0	100	0	0	20	0	0
4A 45	SET YAW DAMPER TEST SW TO R	1	2.48	0	100	0	100	0	0	20	0	0
4A 46	ADJUST FLODER PEDALS FORE AND AFT FOR COMFORT	1	3.00	0	100	100	100	100	100	20	0	0
4A 48	CHECK FLIGHT CONT SYS A SW SET TO ON	1	2.79	0	100	0	0	0	0	20	0	0
4A 49	CHECK FLIGHT CONT SYS B SW SET TO ON	1	2.02	0	100	0	0	0	0	20	0	0
4A 50	CHECK ALT FLAPS SW SLT TO LIF	1	2.04	0	100	0	0	0	0	20	0	0
4A 51	CHECK SPOILER SYS A SW SET TO ON	1	2.04	0	100	0	0	0	0	20	0	0
4A 52	CHECK SPOILER SYS B SW SET TO ON	1	2.02	0	100	0	0	0	0	20	0	0
4A 53	CHECK YAW DAMPER SW SET TO OFF	1	2.02	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
4A 54	MON YAW DAMPER LT OFF	1	1.21	0	100	0	0	0	0	20	0	0
4A 55	ACTUATE FLIGHT CGNT TO TURN TO HDG 070	1	1.21	0	100	0	0	0	0	20	0	0
4A 56	SET STABILIZER BRAKE	1	1.97	0	100	100	0	0	0	20	0	0
		2	3.16	0	100	0	100	0	0	20	0	0
4A 57	RELEASE STAB BRAKE	1	1.97	0	100	100	0	0	0	20	0	0
		2	3.16	0	100	0	100	0	0	20	0	0
4A 58	MON YAW DAMPER INDIC	1	2.01	0	100	0	0	0	0	20	0	0
4A 59	MON A/P DISENGAGE LT ON	1	.68	0	100	0	0	0	0	20	0	0
4A 60	MON ELEV POSITION INDIC	1	2.24	0	100	0	0	0	0	20	0	0
4A 61	MON STALL WARNING TEST INDIC	1	2.01	0	100	0	0	0	0	20	0	0
4A 62	MON FLT CONT SYS B HYD LD PRESS LT ON	1	.66	0	100	0	0	0	0	20	0	0
		2	1.21	0	100	0	0	0	0	20	0	0
4A 63	MON FLT CONT SYS B HYD LD PRESS LT OFF	1	.66	0	100	0	0	0	0	20	0	0
		2	1.21	0	100	0	0	0	0	20	0	0
4A 64	MANUALLY CONTROL AIRCRAFT	1	32.00	90	0	100	80	100	100	20	0	0
		2	10.00	0	0	50	50	100	100	20	0	0
		3	5.00	0	0	50	50	100	100	20	0	0
		4	30.00	0	0	50	50	100	100	20	0	0
4A 65	MANUALLY CONTROL AIRCRAFT	1	60.00	0	0	50	50	100	100	20	0	0
		2	300.00	0	0	50	50	100	100	20	0	0
		3	120.00	0	0	50	50	100	100	20	0	0
		4	90.00	0	0	50	50	100	100	20	0	0
4A 66	MANUALLY CONTROL AIRCRAFT TO MAKE RIGHT TURN	1	90.00	0	0	0	0	0	0	0	0	0
4A 67	ROLL OUT TO LEVEL CONFIGURATION	1	.00	0	0	0	0	0	0	0	0	0
4A 68	MANUALLY CONTROL AIRCRAFT	1	26.00	0	0	50	50	100	100	20	0	0
		2	90.00	0	0	50	50	50	50	20	0	0
		3	2.00	0	0	100	100	100	100	20	0	0
4A 69	ACTUATE FLIGHT CON- TROLS TO ALIGN A/C WITH ATTITUDE REQSD BY FDI AND CI	1	100.00	0	0	50	50	100	100	20	0	0

TASK CONF NO.	TASK NAME/DESCRIPTION	S 1 T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
4A	70 ADJUST PANEL MOUNTED CONTROLLER HEIGHT	1	3.00	0	100	100	100	0	0	20	0	0
4A	71 ACT FLIGHT CONTROLS TO CHANGE HEADING	1	2.00	0	0	100	100	100	100	50	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
4B	C1 ACTUATE ENG NO.1 THROTTLE	1	2.34	0	0	C	100	0	0	20	0	0
		2	2.82	0	0	C	100	0	0	20	0	0
		3	2.44	0	C	C	100	0	0	20	0	0
		4	2.51	0	C	0	100	0	0	20	0	0
4B	C2 ACTUATE ENG NO.2 THROTTLE	1	2.34	0	0	C	100	0	0	20	0	0
		2	2.42	0	0	C	100	0	0	20	0	0
		3	2.44	0	C	C	100	0	0	20	0	0
		4	2.51	0	C	C	100	0	0	20	0	0
4B	C3 ACTUATE BOTH THROTTLES	1	2.34	0	0	C	100	0	0	20	0	0
		2	2.82	0	C	C	50	0	0	20	0	0
		3	2.44	0	C	C	100	0	0	20	0	0
		4	2.51	0	C	C	100	0	0	20	0	0
4B	C4 CHECK THAT THRUST LEVERS IN CLOSED POS	1	2.54	0	100	C	0	0	0	20	0	0
4B	C5 ADVANCE THRUST LVRS TO NEAR VERTICAL POS	1	3.15	0	0	0	100	0	0	20	0	0
4B	C6 ADVANCE THRUST LVRS TO TAKEOFF THRUST	1	2.44	C	0	C	100	0	0	20	0	0
4B	C7 MAKE MINOR THRUST ADJUSTMENT	1	2.73	0	C	100	C	0	0	20	0	0
		2	2.73	0	C	0	100	0	0	20	0	0
4B	C8 SET THRUST LEVERS TO IDLE	1	2.50	C	C	C	100	0	C	20	0	0
		2	2.50	0	0	100	C	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
40	01 SET THRUST REVERSER LEVERS TO ON	1	2.74	C	C	C	100	0	0	10	0	0
		2	1.00	C	C	C	100	0	0	10	0	0
		3	1.00	0	C	100	0	0	0	10	0	0
40	02 SET THRUST REVERSER LEVERS TO OFF	1	2.76	0	C	C	100	0	0	10	0	0
		2	2.76	C	C	100	C	0	0	10	0	0
40	03 MON ENG NO 1 REVER- SER UNLOCKED LT ON	1	.76	0	100	0	0	0	0	20	0	0
		2	.54	0	100	0	0	0	0	20	0	0
40	04 MON ENG NO 1 REVER- SER UNLOCKED LT OFF	1	.55	0	100	0	0	0	0	20	0	0
		2	.76	C	100	C	C	0	0	20	0	0
40	05 MON ENG NO 2 REVER- SER UNLOCKED LT ON	1	.76	0	100	0	0	0	0	20	0	0
		2	.54	0	100	C	C	0	0	20	0	0
40	06 MON ENG NO 2 REVER- SER UNLOCKED LT OFF	1	.55	0	100	C	0	0	0	20	0	0
		2	.76	0	100	0	0	0	C	20	0	0
40	07 MON REVERSER ISOLA- TION VALVE LT ON	1	.76	0	100	C	0	0	0	20	0	0
40	08 MON REVERSER ISOLA- TION VALVE LT OFF	1	.76	0	100	0	0	0	0	20	0	0
40	09 MON MASTER CAUTION AND OVRHD ANNUN LTS ON	1	.73	0	100	C	C	0	0	20	0	0
40	10 PRESS MASTER CAUTION RESET SW	1	2.13	0	100	C	100	0	0	20	0	0
		2	2.49	C	100	C	100	0	0	20	0	0
40	11 MON OVRHD CAUTION LT ON	1	.54	0	100	C	C	0	0	20	0	0
40	12 MON OVRHD CAUTION LT OFF	1	.54	C	100	C	C	0	0	20	0	0
40	13 PRESS ANNUN PNL RECALL SW	1	2.13	0	100	C	100	0	0	20	0	0
		2	2.49	C	100	C	100	0	0	20	0	0
40	14 SET ENG NO.1 THRUST REVERSER OVERRIDE SW TO NORMAL	1	3.29	0	100	C	100	0	0	20	0	0
40	15 SET ENG NO.1 THRUST REVERSE OVERRIDL SW TO OVERRIDE	1	3.29	0	100	C	100	0	0	20	0	0
40	16 SET ENG NO.2 THRUST REVERSER OVERRIDE SW TO NORMAL	1	1.91	0	100	C	100	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
40	17 SET ENG NO.2 THRUST REVERSER OVERRIDE SW TO OVERRIDE	1	1.91	0	100	0	100	0	0	20	0	0
40	18 MON THRUST REVERSER ARMED LT ON	1	.53	0	100	0	0	0	0	20	0	0
40	19 MON THRUST REVERSER ARMED LT OFF	1	.53	0	100	0	0	0	0	20	0	0
40	20 MON THRUST REVERSER LO PRESS LT ON	1	1.30	0	100	0	0	0	0	20	0	0
40	21 MON THRUST REVERSER LO PRESS LT OFF	1	1.30	0	100	0	0	0	0	20	0	0
40	22 MON THRUST REVERSER OVERRIDE SW'S IN NORMAL	1	2.18	0	100	0	100	0	0	20	0	0
40	23 CHECK THAT REV THRST LEVERS SET TO OFF	1	1.20	0	100	0	0	0	0	20	0	0



TASK CODE NR.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
40	01 SET LANDING GEAR LVR TO UP POSITION	1	3.06	0	100	100	0	0	0	20	0	0
		2	3.27	0	100	100	0	0	0	20	0	0
		3	2.53	0	100	100	0	0	0	20	0	0
40	02 SET LANDING GEAR LVR TO OFF POSITION	1	3.06	0	100	100	0	0	0	20	0	0
		2	3.27	0	100	100	0	0	0	20	0	0
		3	2.53	0	100	100	0	0	0	20	0	0
40	03 SET LANDING GEAR LEVER TO DOWN POSITION	1	4.00	0	100	100	0	0	0	20	0	0
		2	2.53	0	100	100	0	0	0	20	0	0
		3	3.27	0	100	100	0	0	0	20	0	0
		4	3.06	0	100	100	0	0	0	20	0	0
40	04 MONITOR LANDING GEAR LEVER POSITION	1	2.09	0	100	0	0	0	0	20	0	0
40	05 MONITOR NOSE GEAR DOWN AND LOCKED LT ON	1	2.00	0	100	0	0	0	0	20	0	0
		2	.54	0	100	0	0	0	0	20	0	0
		3	.72	0	100	0	0	0	0	20	0	0
40	06 MONITOR NOSE GEAR DOWN AND LOCKED LT OFF	1	.54	0	100	0	0	0	0	20	0	0
		2	.72	0	100	0	0	0	0	20	0	0
40	07 MONITOR NOSE GEAR UNLOCKED LT ON	1	.54	0	100	0	0	0	0	20	0	0
		2	.72	0	100	0	0	0	0	20	0	0
40	08 MON NOSE GEAR UNLOCKED LT OFF	1	.54	0	100	0	0	0	0	20	0	0
		2	.72	0	100	0	0	0	0	20	0	0
40	09 MONITOR LEFT/RT GEAR DOWN AND LOCKED LT ON	1	2.00	0	100	0	0	0	0	20	0	0
		2	.72	0	100	0	0	0	0	20	0	0
		3	.54	0	100	0	0	0	0	20	0	0
40	10 MON LEFT/RT GEAR DOWN AND LOCKED LT OFF	1	.54	0	100	0	0	0	0	20	0	0
		2	.72	0	100	0	0	0	0	20	0	0
40	11 MON LEFT/RT GEAR UNLOCKED LT ON	1	.54	0	100	0	0	0	0	20	0	0
		2	.72	0	100	0	0	0	0	20	0	0
40	12 MON LEFT/RT GEAR UNLOCKED LT OFF	1	.54	0	100	0	0	0	0	20	0	0
		2	.72	0	100	0	0	0	0	20	0	0
40	13 ACTUATE LANDING GEAR LEVER OVERRIDE TRIGGLP	1	.54	0	100	0	0	0	0	20	0	0
40	14 OPEN LANDING GEAR MANUAL EXT CONT ACCESS DLJR	1	.54	0	100	0	0	0	0	20	0	0

TASK CODE	NG.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
					EV	IV	LH	RH	LF	RF	COG	AUD	VBL
40	15	CLOSE LANDING GEAR MANUAL EXT CONT ACCESS DOOR	1	.54	0	100	C	0	0	0	20	0	0
40	16	ACTUATE RT MAIN GEAR MANUAL EXT HANDLE	1	.54	0	100	C	0	0	0	20	0	0
40	17	ACTUATE LEFT MAIN GEAR MANUAL EXT HANDLE	1	.54	0	100	C	0	0	0	20	0	0
40	18	ACTUATE NOSE GEAR MANUAL EXT HANDLE	1	.54	0	100	C	0	0	0	20	0	0
40	19	OPEN NOSE GEAR VIEWING PORT	1	.54	0	100	C	0	0	0	20	0	0
40	20	CLOSE NOSE GEAR VIEWING PORT	1	.54	0	100	C	0	0	0	20	0	0
40	21	INSPECT NOSE GEAR LOCKED INDIC MARK	1	.54	0	100	C	0	0	0	20	0	0
40	22	OPEN MAIN GEAR VIEWING PORT	1	.54	0	100	C	0	0	0	20	0	0
40	23	CLOSE MAIN GEAR VIEWING PORT	1	.54	0	100	C	0	0	0	20	0	0
40	24	INSPECT MAIN GEAR LOCKED INDIC MARKS	1	.54	0	100	C	0	0	0	20	0	0
40	27	PULL PARKING BRAKE LIVER	1 2 3	3.14 2.06 4.00	0 0 0	80 80 100	C C 100	100 100 C	0 0 0	0 0 0	20 20 20	0 0 0	0 0 0
40	28	ACTUATE BRAKES USING RUDDER PEDALS	1 2 3	1.50 10.00 30.00	0 0 0	0 0 0	C C C	0 0 0	100 100 100	100 100 100	20 20 20	0 0 0	0 0 0
40	29	MON PARKING BRAKE WARNING LT ON	2 3 4	92.00 .25 .54	0 0 0	100 100 100	C C C	0 0 0	0 0 0	0 0 0	20 20 20	0 0 0	0 0 0
40	30	MON PARKING BRAKE WARNING LT OFF	2 3 4	92.00 .25 .54	0 0 0	100 100 100	C C C	0 0 0	0 0 0	0 0 0	20 20 20	0 0 0	0 0 0
40	31	MON LANDING GEAR NOT DOWN AND LOCKED WARNING HORN	2	92.00	0	100	C	0	0	0	20	0	0
40	32	ACTUATE LANDING GEAR WARNING OUTPUT SW	1	2.10	0	100	100	C	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME										
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL		
4D	33	SET INBD ANTI-SKID SW TO ON	1	2.18	0	100	100	0	0	0	20	0	0	
			2	1.68	0	100	100	0	0	0	20	0	0	
4D	34	SET INBD ANTI-SKID SW TO OFF	1	2.18	0	100	100	0	0	0	20	0	0	
			2	1.68	0	100	100	0	0	0	20	0	0	
4D	35	SET OUTBD ANTI-SKID SW TO ON	1	2.18	0	100	100	0	0	0	20	0	0	
			2	1.68	0	100	100	0	0	0	20	0	0	
4D	36	SET OUTBD ANTI-SKID SW TO OFF	1	2.18	0	100	100	0	0	0	20	0	0	
			2	1.68	0	100	100	0	0	0	20	0	0	
4D	37	MON ANTI-SKID INOP LT ON	1	.54	0	100	0	0	0	0	20	0	0	
4D	38	MON ANTI-SKID INOP LT OFF	1	.54	0	100	0	0	0	0	20	0	0	
4D	39	MON AUTO BRAKE INOP LT ON	1	.54	0	100	0	0	0	0	20	0	0	
4D	40	MON AUTO BRAKE INOP LT OFF	1	.26	0	100	0	0	0	0	20	0	0	
4D	41	SET AUTO BRAKE SEL SW TO OFF	1	2.62	0	100	100	0	0	0	20	0	0	
			2	2.62	0	100	0	100	0	0	20	0	0	
4D	42	SET AUTO BRAKE SEL SW TO MIN	1	2.62	0	100	100	0	0	0	20	0	0	
4D	43	SET AUTO BRAKE SEL SW TO MED	1	2.62	0	100	100	0	0	0	20	0	0	
4D	44	SET AUTO BRAKE SEL SW TO MAX	1	2.62	0	100	100	0	0	0	20	0	0	
4D	46	ACTUATE LANDING GEAR WARNING HORN CUTOUT SW	1	2.16	0	100	100	0	0	0	20	0	0	
4D	47	CHECK LANDING GEAR LEVER IN DOWN POS.	1	.90	0	100	0	0	0	0	20	0	0	
4D	48	CHECK THAT ANTI-SKID CONT SW GUARDS ARE DOWN	1	1.04	0	100	0	0	0	0	20	0	0	
4D	49	CHECK AUTO BRAKE SEL SW SET TO OFF	1	1.08	0	100	0	0	0	0	20	0	0	
4D	50	CHECK THAT PARKING BRAKES ARE SET	1	.97	0	100	0	0	0	0	20	0	0	
4D	51	SET PARKING BRAKE LEVER TO OFF POS	1	2.00	0	100	0	100	0	0	20	0	0	
			2	3.00	0	100	100	0	0	0	20	0	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
4D	52 RELEASE BRAKES	1	1.00	0	0	0	0	100	100	20	0	0
4D	53 SET GEAR SEAL SW TO OFF	1	2.48	0	100	100	0	0	0	20	0	0
4D	54 SET GEAR SEAL SW TO NORMAL	1	2.48	0	100	100	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
4E	01 SET ALT FLAPS MASTER SW TO ARM	1	2.01	0	100	0	100	0	0	20	0	0
		2	1.70	0	100	0	100	0	0	20	0	0
4E	02 SET ALT FLAPS MASTER SW TO OFF	1	2.01	0	100	0	100	0	0	20	0	0
		2	1.70	0	100	0	100	0	0	20	0	0
4E	03 SET ALT FLAPS SW TO UP	1	2.01	0	100	0	100	0	0	20	0	0
		2	1.70	0	100	0	100	0	0	20	0	0
4E	04 SET ALT FLAPS SW TO OFF	1	2.01	0	100	0	100	0	0	20	0	0
		2	1.70	0	100	0	100	0	0	20	0	0
4E	05 SET ALT FLAPS SW TO DOWN	1	2.01	0	100	0	100	0	0	20	0	0
		2	1.70	0	100	0	100	0	0	20	0	0
4E	06 SET FLAP CONT LEVER TO FLAPS 0	1	1.98	0	100	100	0	0	0	20	0	0
		2	2.22	0	100	100	0	0	0	20	0	0
		3	2.69	0	100	100	0	0	0	20	0	0
4E	07 SET FLAP CONT LEVER TO FLAPS 1	1	2.69	0	100	100	0	0	0	20	0	0
4E	08 SET FLAP CONT LEVER TO FLAPS 2	1	2.02	0	100	100	0	0	0	20	0	0
		2	2.69	0	100	100	0	0	0	20	0	0
4E	09 SET FLAP CONT LEVER TO FLAPS 5	1	4.00	0	100	100	0	0	0	20	0	0
		2	1.93	0	100	100	0	0	0	20	0	0
		3	2.69	0	100	100	0	0	0	20	0	0
4E	10 SET FLAP CONT LEVER TO FLAPS 10	1	1.99	0	100	100	0	0	0	20	0	0
		2	2.89	0	100	100	0	0	0	20	0	0
4E	11 SET FLAP CONT LEVER TO FLAPS 15	1	4.00	0	100	100	0	0	0	20	0	0
		2	4.24	0	100	100	0	0	0	20	0	0
		3	2.46	0	100	100	0	0	0	20	0	0
		4	2.89	0	100	100	0	0	0	20	0	0
4E	12 SET FLAP CONT LEVER TO FLAPS 25	1	2.90	0	100	100	0	0	0	20	0	0
4E	13 SET FLAP CONT LEVER TO FLAPS 30	1	2.91	0	100	100	0	0	0	20	0	0
4E	14 SET FLAP CONT LEVER TO FLAPS 40	1	2.92	0	100	100	0	0	0	20	0	0
4E	15 MONITOR FLAP POSITION INDICATOR	1	2.02	0	100	0	0	0	0	20	0	0
		2	4.00	0	100	0	0	0	0	20	0	0
		3	2.23	0	100	0	0	0	0	20	0	0
		4	.97	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
4F 16	CHECK FLAP LEVER AND POSITION INDIC AGREE	1	2.50	0	100	C	0	0	0	20	0	C	
4E 17	MON FLAP LEVER POS	1	1.24	0	100	C	0	0	0	20	0	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
4F	01 SET SPD BRAKE LEVER TO DOWN	1	2.61	0	50	C	100	0	0	20	0	0
		2	2.99	0	50	C	100	0	0	20	0	0
		3	3.26	0	50	C	100	0	0	20	0	0
		4	2.81	0	50	C	100	0	0	20	0	0
4F	02 SET SPEED BRAKE LEVER TO ARM	1	4.00	0	50	C	100	0	0	20	0	0
		2	4.00	0	50	100	0	0	0	20	0	0
		3	3.26	0	50	C	100	0	0	20	0	0
		4	2.81	0	50	C	100	0	0	20	0	0
4F	03 SET SPEED BRAKE LEVER TO FLT DETENT	1	2.99	0	50	C	100	0	0	20	0	0
		2	2.61	0	50	C	100	0	0	20	0	0
		3	3.26	0	50	C	100	0	0	20	0	0
		4	2.81	0	50	C	100	0	0	20	0	0
4F	04 SET SPEED BRAKE LEVER TO JP	1	2.61	0	50	C	100	0	0	20	0	0
		2	2.99	0	50	C	100	0	0	20	0	0
		3	3.26	0	50	C	100	0	0	20	0	0
		4	2.81	0	50	C	100	0	0	20	0	0
4F	05 MON SPD BRAKE DO NOT ARM LT ON	1	.73	0	100	C	C	0	0	20	0	0
		2	.83	0	100	C	C	0	0	20	0	0
		3	.35	0	100	C	0	0	0	20	0	0
4F	06 MON SPD BRAKE DO NOT ARM LT OFF	1	.73	0	100	C	C	0	0	20	0	0
		2	.83	0	100	C	C	0	0	20	0	0
		3	.35	0	100	C	C	0	0	20	0	0
4F	07 MONITOR SPEED BRAKE LEVER ARMED LT GREEN	1	2.00	0	100	C	C	0	0	20	0	0
		2	.73	0	100	C	C	0	0	20	0	0
		3	.83	0	100	C	C	0	0	20	0	0
		4	.35	0	100	C	C	0	0	20	0	0
4F	08 MON SPD BRAKE LEVER ARMED LT OFF	1	.73	0	100	C	C	0	0	20	0	0
		2	.83	0	100	C	C	0	0	20	0	0
		3	.35	0	100	C	C	0	0	20	0	0
4F	09 ACTUATE SPEED BRAKE 1 TEST SW	1	2.09	0	100	C	100	0	0	20	0	0
		2	1.35	0	100	C	100	0	0	20	0	0
4F	10 ACTUATE SPEED BRAKE 2 TEST SW	1	2.09	0	100	C	100	0	0	20	0	0
		2	1.35	0	100	C	100	0	0	20	0	0
		3	1.44	0	100	C	100	0	0	20	0	0
4F	11 ACTUATE SPEED BRAKE 3 TEST SW	1	2.09	0	100	C	100	0	0	20	0	0
		2	1.35	0	100	C	100	0	0	20	0	0
		3	1.47	0	100	C	100	0	0	20	0	0
4F	12 MON SPD BRK LEVER IN DOWN AND DETENT POS.	1	2.00	0	100	C	C	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME:								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
4G	01 ADJUST AILERON TRIM WHEEL	1	4.14	0	0	0	100	0	0	20	0	0
4G	02 ADJ STABILIZER TRIM WHEEL	1	2.56	0	50	0	100	0	0	20	0	0
		2	3.42	0	50	100	0	0	0	20	0	0
		3	3.42	0	50	0	100	0	0	20	0	0
4G	03 MON STABILIZER TRIM INDIC	1	2.48	0	100	0	0	0	0	20	0	0
		2	.26	0	100	0	0	0	0	20	0	0
		3	2.01	0	100	0	0	0	0	20	0	0
4G	04 SET PILOT STAB TRIM SWITCHES	1	2.11	0	0	0	0	100	0	20	0	0
4G	05 ACTUATE STABILIZER BRAKE RELEASE	1	3.16	0	100	0	100	0	0	20	0	0
4G	06 ACTUATE STABILIZER BY CWS	1	3.16	0	100	0	100	0	0	20	0	0
4G	07 ADJUST RUDDER TRIM WHEEL	1	3.59	0	0	0	100	0	0	20	0	0
4G	08 SET STAB TRIM MAIN ELEC CUTOFF SW TO NORMAL	1	2.22	0	100	100	0	0	0	20	0	0
		2	2.22	0	100	0	100	0	0	20	0	0
4G	09 SET STAB TRIM MAIN ELEC CUTOFF SW TO CUTOFF	1	2.22	0	100	100	0	0	0	20	0	0
4G	10 SET STAB TRIM A/P CUTOFF SW TO NORM	1	2.22	0	100	100	0	0	0	20	0	0
		2	1.25	0	100	0	100	0	0	20	0	0
4G	11 SET STAB TRIM A/P CUTOFF SW TO CUTOFF	1	2.22	0	100	100	0	0	0	20	0	0
4G	12 MONITOR TAKEOFF WARNING HORN	1	2.22	0	100	100	0	0	0	20	0	0
4G	13 MON STAB TRIM LT ON	1	2.48	0	100	0	0	0	0	20	0	0
		2	2.13	0	100	0	0	0	0	20	0	0
		3	.75	0	100	0	0	0	0	20	0	0
		4	.66	0	100	0	0	0	0	20	0	0
4G	14 MON STAB TRIM LT OFF	1	2.48	0	100	0	0	0	0	20	0	0
		2	2.13	0	100	0	0	0	0	20	0	0
		3	.75	0	100	0	0	0	0	20	0	0
		4	.66	0	100	0	0	0	0	20	0	0



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RRH	LF	RF	CDG	AUD	VBL	
4G 15	CHECK THAT STAB TRIM CUTOFF SW'S SET TO NORMAL	1	1:30	0	100	0	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
4H 01	SET FFD CWS SW TO ENGAGED	1	2.05	0	100	0	100	0	0	20	0	0	
4H 02	SET FFD CWS SW TO DISENGAGED	1	2.05	0	100	0	100	0	0	20	0	0	
4H 03	MON FFD CWS SW SET TO ENGAGED	1	1.50	0	100	0	0	0	0	20	0	0	
4H 04	MON FFD CWS SW SET TO DISENGAGED	1	1.50	0	100	0	0	0	0	20	0	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
4M	01 ACTUATE NOSE GEAR STEERING WHEEL	1	5.68	0	0	100	0	0	0	20	0	0
		2	2.94	0	0	100	0	0	0	20	0	0
		3	150.00	0	0	100	0	0	0	20	0	0
		4	10.00	0	0	100	0	0	0	20	0	0
4M	02 ACTUATE NOSE GEAR STEERING USING RUDDER PEDALS	1	15.00	0	0	0	0	100	0	20	0	0
		2	20.00	0	0	0	0	0	100	20	0	0
		3	150.00	0	0	0	0	100	100	20	0	0
		4	68.00	0	0	0	0	100	100	20	0	0
4M	03 ACTUATE NOSE GEAR STEERING USING RUDDER PEDALS	1	45.00	0	0	0	0	100	100	20	0	0
		2	100.00	0	0	0	0	100	100	20	0	0
		3	90.00	0	0	0	0	100	100	20	0	0
		4	10.00	0	0	0	0	100	100	20	0	0
4M	04 ACTUATE NOSE GEAR STEERING USING RUDDER PEDALS	1	140.00	0	0	0	0	100	100	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
4N	(1) MONITOR LEADING EDGE DEVICE POSITION INDICATOR LTS	1	2.00	0	100	0	0	0	0	20	0	0
		2	2.34	0	100	0	0	0	0	20	0	0
		3	2.24	0	100	0	0	0	0	20	0	0
		4	2.81	0	100	0	0	0	0	20	0	0
4N	(2) ACTUATE LEADING EDGE DEVICE ANNUN PNL TEST SW	1	2.05	0	100	0	100	0	0	20	0	0
		2	1.52	0	100	0	100	0	0	20	0	0
		3	1.62	0	100	100	0	0	0	20	0	0
4N	(3) MON LE FLAPS-IN- TRANSIT LT ON	1	.54	0	100	0	0	0	0	20	0	0
		2	1.17	0	100	0	0	0	0	20	0	0
4N	(4) MON LE FLAPS-IN- TRANSIT LT OFF	1	.54	0	100	0	0	0	0	20	0	0
		2	1.17	0	100	0	0	0	0	20	0	0
4N	(5) MON LE FLAPS EXT LT ON	1	.54	0	100	0	0	0	0	20	0	0
		2	1.17	0	100	0	0	0	0	20	0	0
4N	(6) MON LE FLAPS EXT LT OFF	1	.54	0	100	0	0	0	0	20	0	0
		2	1.17	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
50	01 MON ADF NO 1 FREQ INDIC	1	.77	0	100	C	0	0	0	20	0	0
		2	1.98	0	100	C	0	0	0	20	0	0
50	02 SELECT ADF NO 1 FREQ	1	2.86	0	100	0	100	0	0	20	0	0
		2	1.98	0	100	0	100	0	0	20	0	0
		3	1.98	0	100	100	0	0	0	20	0	C
50	03 SET ADF NO 1 FUNC SEL SW TO OFF	1	1.85	0	100	100	C	0	C	20	0	0
		2	2.06	0	100	0	100	0	0	20	0	0
		3	1.93	0	100	C	100	0	0	20	0	0
50	04 SET ADF NO 1 FUNC SEL SW TO ANT	1	1.85	0	100	100	0	0	0	20	0	0
		2	2.06	0	100	C	100	0	0	20	0	0
		3	1.93	0	100	0	100	0	0	20	0	0
50	05 SET ADF NO 1 FUNC SEL SW TO ADF	1	1.85	0	100	100	0	0	0	20	0	C
		2	2.06	0	100	C	100	0	0	20	0	C
		3	1.93	C	100	C	100	0	0	20	0	0
		4	2.20	C	100	100	0	0	0	20	0	C
50	06 ADJUST ADF NO 1 GAIN	1	1.93	0	100	C	100	0	0	20	0	0
50	08 SET COMM 2 FILTER SEL SW TO VOICE	1	2.00	0	100	C	100	0	0	20	0	0
50	09 SET COMM 2 FILTER SEL SW TO BOTH	1	2.00	0	100	C	100	0	0	20	0	0
50	10 SET COMM 2 FILTER SEL SW TO RANGE	1	2.00	0	100	0	100	0	0	20	0	0
50	11 MON ADF 1 AUDIO VIA LOUDSPEAKER	1	2.00	0	100	C	100	0	0	20	0	C
50	12 MON ADF 1 AUDIO VIA HEADSET	1	2.00	0	100	C	100	0	0	20	0	C
50	13 ACTUATE COMM 2 ADF-1 COMM RECVR SW	1	1.43	0	100	C	100	0	0	20	0	0
		2	2.46	0	100	0	100	0	0	20	0	C
		3	2.44	0	100	100	0	0	0	20	0	0
50	14 ADJUST ADF NO 1 COMM RECVR VOL	1	1.96	0	10	C	100	0	0	20	0	0
50	15 SET ADF NO.1 FUNC SEL SW TO LGUP	1	1.85	0	100	100	0	C	0	0	0	C
		2	2.06	0	100	0	100	0	0	0	0	0
		3	1.93	0	100	C	100	0	C	0	0	0
50	16 SET ADF NO.1 BFD SW TO ON	1	1.42	0	100	C	100	0	0	20	0	C
		2	2.75	0	100	C	100	0	C	20	0	0
		3	3.00	0	100	100	0	0	C	20	0	C

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
50	17 SET ADF NO.1 BFO SW TO OFF	1	1.42	0	100	0	100	0	0	20	0	0
50	18 ADJUST ADF NO.1 LOOP CONT	1	2.74	0	100	0	100	0	0	20	0	0
50	19 SEL ADF NO.1 FREQ BAND .19-.40	1	2.13	0	100	0	100	0	0	20	0	0
		2	2.75	0	100	0	100	0	0	20	0	0
		3	3.00	0	100	100	0	0	0	20	0	0
50	20 SEL ADF NO.1 FREQ BAND .40-.84	1	2.13	0	100	0	100	0	0	20	0	0
		2	2.75	0	100	0	100	0	0	20	0	0
50	21 SEL ADF NO.1 FREQ BAND .84-1.75	1	2.13	0	100	0	100	0	0	20	0	0
		2	2.75	0	100	0	100	0	0	20	0	0
50	22 MON ADF NO.1 TUNING METER INDIC	1	.77	0	100	0	0	0	0	20	0	0
50	23 MON ADF/RMI 1 INDIC FOR COMPASS HDG	1	2.23	0	100	0	0	0	0	20	0	0
50	24 MON ADF/RMI 1 SYNC ANNUN	1	2.23	0	100	0	0	0	0	20	0	0
		2	2.00	0	100	0	0	0	0	20	0	0
50	25 ADJUST ADF/RMI 1 SYNC SEL	1	2.47	0	100	100	0	0	0	20	0	0
50	26 MON ADF/RMI 1 COM- PASS WARNING FLAG IN VIEW	1	2.23	0	100	0	0	0	0	20	0	0
50	27 MON ADF/RMI 1 COM- PASS WARNING FLAG OUT OF VIEW	1	2.23	0	100	0	0	0	0	20	0	0
50	28 MON ADF POINTER NO.1 ON ADF/RMI 1 INDIC	1	2.23	0	100	0	0	0	0	20	0	0
		2	2.00	0	100	0	0	0	0	20	0	0
50	29 MON ADF POINTER NO.2 ON ADF/RMI 1 INDIC	1	2.23	0	100	0	0	0	0	20	0	0
		2	2.00	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL	
5E	C1	MON ADF NO 2 FREQ. INDIC	1 2	1.77 1.98	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
5E	C2	SELECT ADF NO 2 FREQ	1 2 3	2.14 2.80 1.98	0 0 0	0 0 0	100 100 100	0 0 0	0 0 0	0 0 0	20 20 20	0 0 0	0 0 0
5E	C3	SET ADF NO 2 FUNC SEL SW TO OFF	1	1.94	0	100	100	0	0	0	20	0	0
5E	C4	SET ADF NO 2 FUNC SEL SW TO ANT	1	1.94	0	100	100	0	0	0	20	0	0
5E	C5	SET ADF NO 2 FUNC SEL SW TO ADF	1	1.94	0	100	100	0	0	0	20	0	0
5E	C6	ADJUST ADF NO 2 GAIN	1	1.94	0	100	100	0	0	0	20	0	0
5E	C7	SET COMM 2 FILTER SEL SW TO VOICE	1	2.09	0	100	100	0	0	0	20	0	0
5E	C8	SET COMM 2 FILTER SEL SW TO BOTH	1	2.09	0	100	100	0	0	0	20	0	0
5E	C9	SET COMM 2 FILTER SEL SW TO RANGE	1	2.09	0	100	100	0	0	0	20	0	0
5E	C10	MON ADF NO 2 AUDIO VIA LOUDSPEAKER	1	2.09	0	100	100	0	0	0	20	0	0
5E	C11	MON ADF NO 2 AUDIO VIA HEADSET	1	2.09	0	100	100	0	0	0	20	0	0
5E	C12	ACTUATE COMM 2 ADF-2 COMM RECVR SW	1 2	1.51 2.48	0 0	100 100	100 0	0 100	0 0	0 0	20 20	0 0	0 0
5E	C13	SET ADF NO.2 FUNC SEL SW TO LOOP	1	1.94	0	100	100	0	0	0	20	0	0
5E	C14	SET ADF NO.2 BFO SW TO ON	1	1.42	0	100	100	0	0	0	20	0	0
5E	C15	SET ADF NO.2 BFO SW TO OFF	1	1.42	0	100	100	0	0	0	20	0	0
5E	C16	ADJUST ADF NO.2 LOOP CONT	1	2.85	0	100	100	0	0	0	20	0	0
5E	C17	SEL ADF NO.2 FREQ BAND .19-.40	1 2	2.80 2.69	0 0	20 20	100 100	0 0	0 0	0 0	20 0	0 0	0 0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
5F 18	SEL ADF NO.2 FREQ BAND .46-.84	1	2.80	0	20	100	0	0	0	20	0	0	
		2	2.69	0	20	100	0	0	0	0	0	0	
5E 19	SEL ADF NO.2 FREQ BAND .84-1.75	1	2.80	0	20	100	0	0	0	20	0	0	
		2	2.69	0	20	100	0	0	0	0	0	0	
5E 20	MON ADF NO.2 TUNING METER INDIC	1	2.26	0	100	0	0	0	0	20	0	0	
5E 21	MON ADF/RMI 2 INDIC FOR COMPASS HDG	1	2.26	0	100	0	0	0	0	20	0	0	
5E 22	MON ADF/RMI 2 SYNC ANNUN	1	2.26	0	100	0	0	0	0	20	0	0	
5E 23	ADJUST ADF/RMI 2 SYNC SEL	1	2.68	0	100	100	0	0	0	20	0	0	
5E 24	MON ADF/RMI 2 COM- PASS FLAG IN VIEW	1	2.26	0	100	0	0	0	0	20	0	0	
5E 25	MON ADF/RMI 2 COM- PASS FLAG OUT OF VIEW	1	2.26	0	100	0	0	0	0	20	0	0	
5F 26	MON ADF NO.1 POINTER ON ADF/RMI 2 INDIC	1	2.26	0	100	0	0	0	0	20	0	0	
		2	2.00	0	10	0	0	0	0	10	0	0	
5E 27	MON ADF NO.2 POINTER ON ADF/RMI 2 INDIC	1	2.26	0	100	0	0	0	0	20	0	0	
		2	2.00	0	10	0	0	0	0	10	0	0	



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
5G	01 SET VOR/RMI COMPASS SEL SW TO NO.2 NORM	1	2.15	0	100	100	0	0	0	0	20	0	0
5G	02 SET VOR/RMI COMPASS SEL SW TO NO.1	1	2.15	0	100	100	0	0	0	0	20	0	0
5G	03 MON COMPASS HDG ON VOR/RMI 1 INDIC	1	2.25	0	100	0	0	0	0	0	20	0	0
5G	04 MON VOR POINTER NO.1 ON VOR/RMI 1 INDIC	1 2	2.25 2.00	0 0	100 10	0 0	0 0	0 0	0 0	0 0	20 10	0 0	0 0
5G	05 MON VOR POINTER NO.2 ON VOR/RMI 1 INDIC	1 2	2.25 2.00	0 0	100 10	0 0	0 0	0 0	0 0	0 0	20 10	0 0	0 0
5G	06 SET COMPASS SEL SW TO NO.1	1	1.46	0	100	100	0	0	0	0	20	0	0
5G	07 SET COMPASS SEL SW TO NO.2	1	1.46	0	100	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
5H	01 MON COMPASS HDG ON VOR/RMI 2 INDIC	1	2.27	0	100	0	0	0	0	20	0	0
		2	2.03	0	100	0	0	0	0	20	0	0
5H	02 MON VOR POINTER NO.1 ON VOR/RMI 2 INDIC	1	2.27	0	100	0	0	0	0	20	0	0
		2	2.03	0	100	0	0	0	0	20	0	0
		3	2.00	0	10	0	0	0	0	10	0	0
5H	03 MON VOR POINTER NO.2 ON VOR/RMI 2 INDIC	1	2.27	0	100	0	0	0	0	20	0	0
		2	2.03	0	100	0	0	0	0	20	0	0
		3	2.00	0	10	0	0	0	0	10	0	0

TASK CODE	TASK NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
					EV	IV	LH	RH	LF	RF	COG	AUD	VBL
5K	01	FOLD MAG COMPASS INTO VIEW	1	3.50	0	100	0	100	0	0	20	0	0
5K	02	MON MAG COMPASS HEADING INDIC	2	1.50	0	100	0	0	0	0	20	0	0
5K	03	FOLD MAG COMPASS OUT OF VIEW	1 2	3.50 1.75	0 0	100 100	0 0	100 100	0 0	0 0	20 20	0 0	0 0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
50	(1) MONITOR RANGE INDIC ON DME RNG NO 1	1	1.64	0	100	0	0	0	0	0	20	0	0
		2	.96	0	100	0	0	0	0	0	20	0	0
		3	1.16	0	100	0	0	0	0	0	20	0	0
		4	.80	0	100	0	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
50001	MON RANGE INDIC ON DME RNG NO 2	1	1.03	0	100	0	0	0	0	20	0	0
		2	.96	0	100	0	0	0	0	20	0	0
		3	1.16	0	100	0	0	0	0	20	0	0
		4	.80	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
50	01 MON NAV-1 FREQ INDIC	1	.76	0	100	0	0	0	0	20	0	0
		2	4.97	0	100	0	0	0	0	20	0	0
		3	5.08	0	100	0	0	0	0	20	0	0
50	02 SET NAV-1 FREQ - WHOLE NO.S	1	2.89	0	10	0	100	0	0	20	0	0
		2	2.08	0	10	0	100	0	0	20	0	0
		3	3.00	0	10	100	0	0	0	20	0	0
		4	2.08	0	10	100	0	0	0	20	0	0
50	03 SET NAV-1 FREQ - FRACTIONS	1	2.08	0	10	0	100	0	0	20	0	0
		2	2.08	0	10	100	0	0	0	20	0	0
50	04 ADJUST NAV-1 VOLUME	1	2.08	0	10	0	100	0	0	20	0	0
		2	2.20	0	10	100	0	0	0	20	0	0
50	05 ACT NAV-1 UP/LT TEST SW	1	2.24	0	10	0	100	0	0	20	0	0
50	06 ACT NAV-1 DN/RT TEST SW	1	1.97	0	10	0	100	0	0	20	0	0
50	07 ACT NAV-1 VOR TEST SW	1	2.26	0	10	0	100	0	0	20	0	0
		2	2.35	0	10	100	0	0	0	20	0	0
50	08 ACT NAV-1 DME TEST SW	1	1.97	0	10	100	0	0	0	20	0	0
		2	2.34	0	10	100	0	0	0	20	0	0
		3	2.20	0	10	0	100	0	0	20	0	0
50	09 SET COMM 2 FILTER SEL SW TO VOICE	1	2.00	0	100	0	100	0	0	20	0	0
50	10 SET COMM 2 FILTER SEL SW TO BOTH	1	2.00	0	100	0	100	0	0	20	0	0
50	11 SET COMM 2 FILTER SEL SW TO RANGE	1	2.00	0	100	0	100	0	0	20	0	0
		2	2.00	0	100	100	0	0	0	20	0	0
50	12 SET COMM 2 NAV-1 NAV RCVR SW TO ON	1	2.46	0	100	0	100	0	0	20	0	0
		2	2.44	0	100	100	0	0	0	20	0	0
		3	1.39	0	100	0	100	0	0	20	0	0
		4	2.26	0	100	0	100	0	0	20	0	0
50	13 SET COMM 2 NAV-1 NAV RCVR SW TO OFF	1	2.46	0	100	0	100	0	0	20	0	0
		2	2.44	0	100	100	0	0	0	20	0	0
		3	1.39	0	100	0	100	0	0	20	0	0
		4	2.26	0	100	0	100	0	0	20	0	0
50	14 MON NAV-1 AUDIO	1	2.46	0	100	0	100	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
5V 01	MON NAV-2 FREQ INDIC	1	.76	0	100	0	0	0	0	20	0	0
		2	4.71	0	100	0	0	0	0	20	0	0
		3	4.91	0	100	0	0	0	0	20	0	0
5V 02	SET NAV-2 FREQ - WHOLE NO.S	1	2.73	0	10	100	0	0	0	20	0	0
		2	2.93	0	10	100	0	0	0	20	0	0
		3	2.97	0	10	0	100	0	0	0	0	0
5V 03	SET NAV-2 FREQ - FRACTIONS	1	1.98	0	10	100	0	0	0	20	0	0
		2	1.98	0	10	0	100	0	0	20	0	0
		3	2.10	0	10	0	100	0	0	20	0	0
5V 04	ADJUST NAV-2 VOLUME	1	2.18	0	10	100	0	0	0	20	0	0
		2	2.93	0	10	100	0	0	0	20	0	0
5V 05	ACT NAV-2 UP/LT TEST SW	1	1.79	0	10	100	0	0	0	20	0	0
5V 06	ACT NAV-2 DN/RT TEST SW	1	1.97	0	10	100	0	0	0	20	0	0
5V 07	ACT NAV-2 VOR TEST SW	1	2.26	0	10	100	0	0	0	20	0	0
		2	2.34	0	10	0	100	0	0	20	0	0
5V 08	ACT NAV-2 DME TEST SW	1	1.84	0	10	100	0	0	0	20	0	0
5V 09	SET COMM 2 FILTER SEL SW TO VOICE	1	2.09	0	100	100	0	0	0	20	0	0
		2	2.00	0	100	0	100	0	0	20	0	0
		3	2.83	0	100	100	0	0	0	20	0	0
5V 10	SET COMM 2 FILTER SEL SW TO BOTH	1	2.09	0	100	100	0	0	0	20	0	0
		2	2.00	0	100	0	100	0	0	20	0	0
		3	2.83	0	100	100	0	0	0	20	0	0
5V 11	SET COMM 2 FILTER SEL SW TO RANGE	1	2.09	0	100	100	0	0	0	20	0	0
		2	2.00	0	100	0	100	0	0	20	0	0
		3	2.83	0	100	100	0	0	0	20	0	0
5V 12	SET COMM 2 NAV-2 NAV RECVR SW TO ON	1	2.40	0	100	100	0	0	0	20	0	0
		2	1.40	0	100	100	0	0	0	20	0	0
		3	2.49	0	100	0	100	0	0	20	0	0
		4	1.39	0	100	0	100	0	0	20	0	0
5V 13	SET COMM 2 NAV-2 NAV RECVR SW TO OFF	1	2.40	0	100	100	0	0	0	20	0	0
		2	1.40	0	100	100	0	0	0	20	0	0
		3	2.49	0	100	0	100	0	0	20	0	0
		4	1.39	0	100	0	100	0	0	20	0	0
5V 14	MON NAV-2 AUDIO	1	2.40	0	100	100	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
5W	01 MON NAV-1 FREQ INDIC	1	.76	0	100	0	0	0	0	0	20	0	0
		2	4.49	0	100	0	0	0	0	0	20	0	0
		3	3.95	0	100	0	0	0	0	0	20	0	0
5W	02 SET NAV-1 FREQ - WHOLE NOS	1	2.91	0	0	0	100	0	0	0	20	0	0
		2	2.37	0	0	100	0	0	0	0	20	0	0
5W	03 SET NAV-1 FREQ - FRACTIONS	1	1.58	0	0	0	100	0	0	0	20	0	0
		2	1.58	0	0	100	0	0	0	0	20	0	0
5W	04 ADJ NAV-1 VOLUME	1	1.56	0	10	0	100	0	0	0	20	0	0
		2	2.91	0	10	0	100	0	0	0	20	0	0
		3	1.58	0	10	100	0	0	0	0	20	0	0
		4	2.91	0	10	100	0	0	0	0	20	0	0
5W	05 SET COMM 1 NAV-1 NAV RCVR SW TO ON	1	2.28	0	100	0	100	0	0	0	0	0	0
		2	2.40	0	100	100	0	0	0	0	0	0	0
5W	06 SET COMM 1 NAV-1 NAV RCVR SW TO OFF	1	2.28	0	100	0	100	0	0	0	0	0	0
		2	2.40	0	100	100	0	0	0	0	0	0	0



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RRH	LF	RF	COG	AUD	VBL	
5X 01	MON NAV-2 FREQ INDIC	1	.76	0	100	C	C	0	0	20	0	0	
		2	4.57	0	100	C	0	0	0	20	0	0	
		3	4.53	0	100	C	C	0	0	20	0	0	
5X 02	SET NAV-2 FREQ - WHOLE NO.S	1	2.89	0	10	C	100	0	0	20	0	C	
		2	2.95	0	C	100	C	0	C	20	0	0	
5X 03	SET NAV-2 FREQ - FRACTIONS	1	1.58	0	10	C	100	0	0	20	0	C	
		2	1.58	0	C	100	0	0	0	20	C	C	
5X 04	ADJ NAV-2 VOLUME	1	1.58	0	10	0	100	0	0	20	0	C	
		2	2.99	0	10	C	100	0	0	20	0	0	
5X 05	SET COM 2 NAV-2 NAV RECVR SW TO ON	1	2.39	0	100	C	100	0	0	20	0	0	
		2	2.28	0	100	100	C	0	0	20	0	0	
5X 06	SET COM 2 NAV-2 NAV RECVR SW TO OFF	1	2.39	0	100	C	100	0	0	20	0	C	
		2	2.28	0	100	100	C	0	0	20	0	C	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
5Y	01 MON NAV-3 FREQ INDIC	1	.76	0	100	0	0	0	0	0	20	0	0
		2	4.65	0	100	0	0	0	0	0	20	0	0
		3	4.70	0	100	0	0	0	0	0	20	0	0
5Y	02 SET NAV-3 FREQ- WHOLE NO.S	1	3.07	0	10	0	100	0	0	0	20	0	0
		2	3.12	0	0	100	0	0	0	0	20	0	0
5Y	03 SET NAV-3 FREQ- FRACTIONS	1	1.58	0	10	1	0	0	0	0	20	0	0
		2	1.58	0	0	100	0	0	0	0	20	0	0
5Y	04 ADJ NAV-3 VOLUME	1	3.07	0	10	0	100	0	0	0	20	0	0
		2	3.12	0	10	100	0	0	0	0	20	0	0
5Y	05 SET COMM 3 NAV-3 NAV RECVR SW TO ON	1	2.50	0	100	100	0	0	0	0	20	0	0
5Y	06 SET COMM 3 NAV-3 NAV RECVR SW TO OFF	1	2.50	0	100	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
6A	01 MON WEATHER RADAR VIDEO	1	4.11	0	100	0	0	0	0	20	0	0
		2	2.39	0	100	0	0	0	0	20	0	0
		3	2.00	0	100	0	0	0	0	20	0	0
6A	02 SEL 30-10 PPI SCALE	1	2.66	0	80	0	100	0	0	20	0	0
		2	2.18	0	80	0	100	0	0	20	0	0
		3	2.66	0	80	100	0	0	0	20	0	0
6A	03 SEL 80-20 PPI SCALE	1	2.66	0	80	0	100	0	0	20	0	0
		2	2.18	0	80	0	100	0	0	20	0	0
6A	04 SEL 180-30 PPI SCALE	1	2.66	0	80	0	100	0	0	20	0	0
		2	2.18	0	80	0	100	0	0	20	0	0
6A	05 ADJUST PPI TRACE CON	1	2.21	0	80	0	100	0	0	20	0	0
6A	06 ADJUST PPI ERASE RATE CONT	1	2.28	0	80	0	100	0	0	20	0	0
6A	07 ADJUST PPI DIMMER	1	2.19	0	80	0	100	0	0	20	0	0
		2	2.14	0	80	0	100	0	0	20	0	0
6A	08 ADJUST PPI POLARI- ZATION CONT	1	2.19	0	80	0	100	0	0	20	0	0
6A	09 SET W/R FUNC SEL SW TO OFF	1	2.37	0	100	100	0	0	0	20	0	0
		2	2.38	0	100	0	100	0	0	20	0	0
6A	10 SET W/R FUNC SEL SW TO STBY	1	2.37	0	100	100	0	0	0	20	0	0
		2	2.38	0	100	0	100	0	0	20	0	0
6A	11 SET W/R FUNC SEL SW TO NORM	1	2.37	0	100	100	0	0	0	20	0	0
		2	2.38	0	100	0	100	0	0	20	0	0
6A	12 SET W/R FUNC SEL SW TO CTR	1	2.37	0	100	100	0	0	0	20	0	0
		2	2.38	0	100	0	100	0	0	20	0	0
6A	13 SET W/R FUNC SEL SW TO MAP	1	2.37	0	100	100	0	0	0	20	0	0
		2	2.38	0	100	0	100	0	0	20	0	0
6A	14 SET W/R FUNC SEL SW TO TEST	1	2.37	0	100	100	0	0	0	20	0	0
		2	2.38	0	100	0	100	0	0	20	0	0
6A	15 ADJUST W/R GAIN CONT	1	2.17	0	80	0	100	0	0	20	0	0
		2	2.12	0	80	0	100	0	0	20	0	0
6A	16 ADJUST W/R ANT TILT CONT	1	2.17	0	80	0	100	0	0	20	0	0
		2	2.02	0	80	0	100	0	0	20	0	0
6A	17 CHECK W/R OFF	1	2.17	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7A	C1 SET HYD PJMP A NO 1 ENG SW TO ON	1	2.75	0	100	0	100	0	0	20	0	0	
		2	1.46	0	100	100	0	0	0	20	0	0	
		3	2.55	0	100	100	0	0	0	20	0	0	
		4	1.46	0	100	0	100	0	0	20	0	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
74 02	SET HYD PUMP A NO 1 ENG SW TO OFF	1	1.95	0	100	100	0	0	0	20	0	0
		2	1.46	0	100	100	0	0	0	20	0	0
		3	1.46	0	100	0	100	0	0	20	0	0
		4	2.75	0	100	0	100	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
7A 03	SET HYD PJMP A NO 2 ENG SW TO ON	1	1.95	0	100	100	0	0	0	20	0	0
		2	1.46	0	100	100	0	0	0	20	0	0
7A 04	SET HYD PJMP A NO 2 ENG SW TO OFF	1	1.95	0	100	100	0	0	0	20	0	0
		2	1.46	0	100	100	0	0	0	20	0	0
		3	1.46	0	100	0	100	0	0	20	0	0
7A 05	SET HYD PJMP B NO 1 ENG SW TO ON	1	1.95	0	100	100	0	0	0	20	0	0
		2	1.46	0	100	100	0	0	0	20	0	0
		3	1.46	0	100	0	100	0	0	20	0	0
7A 06	SET HYD PJMP B NO 1 ENG SW TO OFF	1	1.95	0	100	100	0	0	0	20	0	0
		2	1.46	0	100	100	0	0	0	20	0	0
		3	1.46	0	100	0	100	0	0	20	0	0
7A 07	SET HYD PJMP B NO 2 ENG SW TO ON	1	1.95	0	100	100	0	0	0	20	0	0
		2	1.46	0	100	100	0	0	0	20	0	0
		3	1.46	0	100	0	100	0	0	20	0	0
7A 08	SET HYD PJMP B NO 2 ENG SW TO OFF	1	1.46	0	100	100	0	0	0	20	0	0
		2	1.95	0	100	100	0	0	0	20	0	0
		3	1.46	0	100	0	100	0	0	20	0	0
7A 09	MGN HYD SYS A NO 1 PUMP LG PRESS LT ON	1	.55	0	100	0	0	0	0	20	0	0
7A 10	MGN HYD SYS A NO 1 PUMP LG PRESS LT OFF	1	.55	0	100	0	0	0	0	20	0	0
7A 11	MGN HYD SYS B NO 1 PUMP LG PRESS LT ON	1	.55	0	100	0	0	0	0	20	0	0
7A 12	MGN HYD SYS B NO 1 PUMP LG PRESS LT OFF	1	.55	0	100	0	0	0	0	20	0	0
7A 13	MGN HYD SYS B NO 2 PUMP LG PRESS LT ON	1	.55	0	100	0	0	0	0	20	0	0
7A 14	MGN HYD SYS B NO 2 PUMP LG PRESS LT OFF	1	.55	0	100	0	0	0	0	20	0	0
7A 15	MGN HYD SYS B NO 1 PUMP OVRHT LT ON	1	.55	0	100	0	0	0	0	20	0	0
7A 16	MGN HYD SYS B NO 1 PUMP OVRHT LT OFF	1	.55	0	100	0	0	0	0	20	0	0
7A 17	MGN HYD SYS B NO 2 PUMP OVRHT LT ON	1	.55	0	100	0	0	0	0	20	0	0
7A 18	MGN HYD SYS B NO 2 PUMP OVRHT LT OFF	1	.55	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7A 19	MON HYD BRAKE PRESS INDIC	1	2.24	0	100	0	0	0	0	20	0	0	
		2	2.07	0	100	0	0	0	0	20	0	0	
7A 20	MON HYD PRESS INDIC	1	2.03	0	100	0	0	0	0	20	0	0	
		2	2.24	0	100	0	0	0	0	20	0	0	
7A 21	MON HYD SYS A QTY INDIC	1	2.02	0	100	0	0	0	0	20	0	0	
		2	2.24	0	100	0	0	0	0	20	0	0	
7A 22	MON HYD SYS B LO QTY LT ON	1	.54	0	100	0	0	0	0	20	0	0	
		2	1.27	0	100	0	0	0	0	20	0	0	
7A 23	MON HYD SYS B LO QTY LT OFF	1	.54	0	100	0	0	0	0	20	0	0	
		2	1.27	0	100	0	0	0	0	20	0	0	
7A 24	MON MASTER CAUT AND HYDRAULIC ANNUN LTS ON	1	.53	0	100	0	0	0	0	20	0	0	
7A 25	ACTUATE MASTER CAUT RESET SW	1	2.14	0	100	100	0	0	0	20	0	0	
		2	2.14	0	100	0	100	0	0	20	0	0	
7A 26	MON HYD ANNUN LT ON	1	.53	0	100	0	0	0	0	20	0	0	
7A 27	MON HYD ANNUN LT OFF	1	.53	0	100	0	0	0	0	20	0	0	
7A 28	ACTUATE ANNUN PNL RECALL SW	1	2.28	0	100	100	0	0	0	20	0	0	
		2	1.93	0	100	100	0	0	0	20	0	0	
7A 29	CHECK SYS B HYD PUMP SWES OFF	1	.90	0	100	0	0	0	0	20	0	0	
		2	1.52	0	100	0	0	0	0	20	0	0	
7A 30	CHECK ENG NO.1 SYS A HYD PUMP SW SET TO ON	1	1.36	0	100	0	0	0	0	20	0	0	
7A 31	CHECK ENG NO.2 SYS A HYD PUMP SW SET TO ON	1	.75	0	100	0	0	0	0	20	0	0	
7A 32	MON HYD SYS SWES	1	2.00	0	100	0	0	0	0	20	0	0	
7A 33	MON MASTER CAUTION AND ALL ANNUN PNL LTS ILLUMINATED	1	.70	0	100	0	0	0	0	20	0	0	
		2	.54	0	100	0	0	0	0	20	0	0	
7A 34	SET GROUND INTER-CONNECT SW TO OPEN	1	1.48	0	100	100	0	0	0	20	0	0	
		2	2.58	0	100	0	100	0	0	0	0	0	
7A 35	SET GROUND INTER-CONNECT SW TO CLOSED	1	1.48	0	100	100	0	0	0	20	0	0	
		2	2.58	0	100	0	100	0	0	0	0	0	
7A 36	MON ALL ANNUN LTS	1	.53	0	100	0	0	0	0	20	0	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7B	C3	MON NO 1 GEN DR LOW OIL PRESS LT ON	1 1.02	0	100	0	0	0	0	20	0	0	
7B	C4	MON NO 1 GEN DR LOW OIL PRESS LT OFF	1 1.02	0	100	0	0	0	0	20	0	0	
7B	C5	MON NO 1 GEN DR HIGH OIL TEMP LT ON	1 1.02	0	100	0	0	0	0	20	0	0	
7B	C6	MON NO 1 GEN DR HIGH OIL TEMP LT OFF	1 1.02	0	100	0	0	0	0	20	0	0	
7B	C7	ACTUATE NO 1 GEN DR DISCONNECT SW	1 1.72 2 1.96	0	100	0	100	0	0	20	0	0	
7B	C8	MON NO 1 GEN DR OIL TEMP INDIC	1 2.08	0	100	0	0	0	0	20	0	0	
7B	C9	MON NO 2 GEN DR LOW OIL PRESS LT ON	1 1.02	0	100	0	0	0	0	20	0	0	
7B	10	MON NO 2 GEN DR LOW OIL PRESS LT OFF	1 1.02	0	100	0	0	0	0	20	0	0	
7B	11	MON NO 2 GEN DR HIGH OIL TEMP LT ON	1 1.02	0	100	0	0	0	0	20	0	0	
7B	12	MON NO 2 GEN DR HIGH OIL TEMP LT OFF	1 1.02	0	100	0	0	0	0	20	0	0	
7B	13	ACTUATE NO 2 GEN DR DISCONNECT SW	1 1.72 2 1.96	0	100	0	100	0	0	20	0	0	
7B	14	MON NO 2 GEN DR OIL TEMP INDIC	1 2.08	0	100	0	0	0	0	20	0	0	
7B	15	SET STDBY PWR SW TO BAT	1 2.94 2 1.96	0	100	0	100	0	0	20	0	0	
7B	16	SET STDBY PWR SW TO OFF	1 2.94	0	100	0	100	0	0	20	0	0	
7B	17	SET STDBY PWR SW TO AUTO	1 2.94 2 1.96	0	100	0	100	0	0	20	0	0	
7B	18	MON STDBY PWR OFF LT ON	1 1.17 2 .89	0	100	0	0	0	0	20	0	0	
7B	19	MON STDBY POWER OFF LT OFF	1 1.17 2 .89	0	100	0	0	0	0	20	0	0	



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
78	20 SET GEN DR TEMP SW TO RISE	1	2.61	0	100	0	100	0	0	20	0	0	
78	21 SET GEN DR TEMP SW TO IN	1	2.61	0	100	0	100	0	0	20	0	0	
78	22 SET BUS TX SW TO OFF	1	2.61	0	100	0	100	0	0	20	0	0	
78	23 SET BUS TX SW TO AUTO	1	2.61	0	100	0	100	0	0	20	0	0	
78	24 MON APU GEN OFF BUS LT ON	1	.63	0	100	0	0	0	0	20	0	0	
		2	.92	0	100	0	0	0	0	20	0	0	
78	25 MON APU GEN OFF BUS LT OFF	1	.63	0	100	0	0	0	0	20	0	0	
		2	.92	0	100	0	0	0	0	20	0	0	
78	26 MON GEN NO.1 TRANS- FER BUS OFF LT ON	1	.59	0	100	0	0	0	0	20	0	0	
		2	.92	0	100	0	0	0	0	20	0	0	
78	27 MON GEN NO.1 TRANS- FER BUS OFF LT OFF	1	.59	0	100	0	0	0	0	20	0	0	
		2	.92	0	100	0	0	0	0	20	0	0	
78	28 MON GEN NO.1 BUS OFF LT ON	1	.59	0	100	0	0	0	0	20	0	0	
		2	.92	0	100	0	0	0	0	20	0	0	
78	29 MON BEN NO.1 BUS OFF LT OFF	1	.59	0	100	0	0	0	0	20	0	0	
		2	.92	0	100	0	0	0	0	20	0	0	
78	30 MON GEN NO.1 GEN OFF BUS LT ON	1	.59	0	100	0	0	0	0	20	0	0	
		2	.92	0	100	0	0	0	0	20	0	0	
78	31 MON GEN NO.1 GEN OFF BUS LT OFF	1	.59	0	100	0	0	0	0	20	0	0	
		2	.92	0	100	0	0	0	0	20	0	0	
78	32 SET GEN NO.1 SW TO ON	1	1.72	0	100	0	100	0	0	20	0	0	
78	33 SET GEN NO.1 SW TO OFF	1	1.72	0	100	0	100	0	0	20	0	0	
		2	1.72	0	100	100	0	0	0	20	0	0	
78	34 SET APU GEN NO.1 SW TO ON	1	1.98	0	100	0	100	0	0	20	0	0	
		2	1.50	0	100	0	100	0	0	20	0	0	
		3	1.75	0	100	0	100	0	0	20	0	0	
		4	1.75	0	100	100	0	0	0	20	0	0	
78	35 SET APU GEN NO.1 SW TO OFF	1	1.98	0	100	0	100	0	0	20	0	0	
		2	1.50	0	100	0	100	0	0	20	0	0	
		3	1.75	0	100	0	100	0	0	20	0	0	
78	36 MON GEN NO.2 TRANS FER BUS OFF LT ON	1	.59	0	100	0	0	0	0	20	0	0	
78	37 MON GEN NO.2 TRANS- FER BUS OFF LT OFF	1	.59	0	100	0	0	0	0	20	0	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7B	38 MON GEN NO.2 BUS OFF LT ON	1	.59	0	100	0	0	0	0	20	0	0	
7B	39 MON GEN NO.2 BUS OFF LT OFF	1	.59	0	100	0	0	0	0	20	0	0	
7B	40 MON GEN NO.2 GEN OFF BUS LT ON	1	.59	0	100	0	0	0	0	20	0	0	
7B	41 MON GEN NO.2 GEN OFF BUSS LT OFF	1	.59	0	100	0	0	0	0	20	0	0	
7B	42 SET GEN NO.2 SW TO ON	1	1.72	0	100	0	100	0	0	20	0	0	
7B	43 SET GEN NO.2 SW TO OFF	1	1.72	0	100	0	100	0	0	20	0	0	
7B	44 SET APU GEN NO.2 SW TO ON	1 2	1.98 1.50	0 0	100 100	0 0	100 100	0 0	0 0	20 20	0 0	0 0	
7B	45 SET APU GEN NO.2 SW TO OFF	1 2	1.98 1.50	0 0	100 100	0 0	100 100	0 0	0 0	20 20	0 0	0 0	
7B	46 SET GRD FWR SW TO ON	1	2.44	0	100	0	100	0	0	20	0	0	
7B	47 SET GRD FWR SW TO OFF	1	2.44	0	100	0	100	0	0	20	0	0	
7B	48 MON GRD PWR AVAIL LT ON	1	1.02	0	100	0	0	0	0	20	0	0	
7B	49 MON GRD FWR AVAIL LT OFF	1	1.02	0	100	0	0	0	0	20	0	0	
7B	50 MON NO.1 GEN AC AMPS INDIC	1	2.16	0	100	0	0	0	0	20	0	0	
7B	51 MON NO.2 GEN AC AMPS INDIC	1	2.16	0	100	0	0	0	0	20	0	0	
7B	52 MON DC AMPS INDIC	1	2.04	0	100	0	0	0	0	20	0	0	
7B	53 MON DC VOLTS INDIC	1	2.06	0	100	0	0	0	0	20	0	0	
7B	54 SET BATTERY SW TO ON	1 2	2.06 3.30	0 0	100 100	0 0	100 100	0 0	0 0	20 20	0 0	0 0	
7B	55 SET BATTERY SW TO OFF	1 2 3	2.06 3.30 3.30	0 0 0	100 100 100	0 0 100	100 100 0	0 0 0	0 0 0	20 20 20	0 0 0	0 0 0	
7B	56 SET DC METER SEL SW TO STDBY PWR	1 2	3.36 2.18	0 0	100 100	0 0	100 100	0 0	0 0	20 20	0 0	0 0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
78	57 SET DC METER SEL SW TO BATT	1	3.36	0	100	C	100	0	0	20	0	0
		2	2.18	0	100	C	100	0	0	20	0	0
78	58 SET DC METER SEL SW TO TR 1	1	3.36	C	100	C	100	0	0	20	0	C
		2	2.18	0	100	C	100	0	0	20	0	C
78	59 SET DC METER SEL SW TO TR 2	1	3.36	C	100	C	100	0	0	20	0	C
		2	2.18	0	100	C	100	0	0	20	0	C
78	60 SET DC METER SEL SW TO TR 3	1	3.36	0	100	0	100	0	0	20	0	0
		2	2.18	0	100	C	100	0	0	20	0	0
78	61 SET DC METER SEL SW TO TEST	1	3.36	0	100	0	100	0	0	20	0	C
		2	2.18	C	100	C	100	0	0	20	0	0
78	62 MON AC FREQ INDIC	1	2.04	0	100	C	0	0	0	20	0	C
78	63 MON AC VOLTS INDIC	1	2.06	C	100	C	0	0	0	20	0	C
78	64 SET AC METER SEL SW TO STDBY PWR	1	3.36	0	100	C	100	0	0	20	0	C
		2	2.18	0	100	C	100	0	0	20	0	C
78	65 SET AC METER SEL SW TO GND PWR	1	3.36	0	100	C	100	0	0	20	0	C
		2	2.18	0	100	0	100	0	0	20	0	C
78	66 SET AC METER SEL SW TO GEN 1	1	3.36	C	100	C	100	0	0	20	0	0
		2	2.18	C	100	C	100	0	0	20	0	C
78	67 SET AC METER SEL SW TO APC GEN	1	3.36	C	100	C	100	0	0	20	0	0
		2	2.18	0	100	C	100	0	0	20	0	C
78	68 SET AC METER SEL SW TO GEN 2	1	3.36	C	100	C	100	0	0	20	C	C
		2	2.18	0	100	0	100	0	0	20	0	C
78	69 SET AC METER SEL SW TO TEST	1	3.36	C	100	C	100	0	0	20	0	C
		2	2.18	0	100	C	100	0	0	20	0	0
78	70 SET GALLEY PWR SW TO ON	1	.50	0	100	C	100	0	0	20	0	0
		2	1.80	0	100	C	100	0	0	20	0	C
78	71 SET GALLEY PWR SW TO OFF	1	.50	0	100	C	100	0	0	20	C	C
		2	1.00	C	100	C	100	0	0	20	0	C
		3	1.80	0	100	100	0	0	C	20	0	0
78	72 ACTUATE RESIDUAL VOLTS SW	1	2.57	0	100	C	100	0	0	0	C	C
78	73 MON MASTER CAUTION AND ELEC ANNUN LTS JM	1	.73	C	100	C	0	0	0	20	C	C
78	74 ACTUATE MASTER CAUT RESET SW	1	2.13	C	100	0	100	0	0	20	0	0
		2	2.49	0	100	C	100	0	0	20	0	C

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
7B	75 SET EQUIP COOLING SW TO NORMAL	1	1.65	0	100	0	100	0	0	20	0	0
7B	76 MON ELEC ANNUN LT OFF	1	.54	0	100	0	0	0	0	20	0	0
7B	77 ACTUATE ANNUN PNL RECALL SW	1 2	2.13 2.49	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7B	79 SET EQUIP COOLING SW TO ALTERNATE	1	1.65	0	100	0	100	0	0	20	0	0
7B	80 MON EQUIP COOLING OFF LT ON	1 2	1.04 1.13	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7B	81 MON MASTER CAUTION AND OVHD ANNUN LTS ON	1	.73	0	100	0	0	0	0	20	0	0
7B	82 MON OVHD ANNUN LT ON	1	.54	0	100	0	0	0	0	20	0	0
7B	83 MON OVHD ANNUN LT OFF	1	.54	0	100	0	0	0	0	20	0	0
7B	84 CHECK BATT SW ON	1	.90	0	100	0	0	0	0	0	0	0
7B	85 CHECK CBSS ON P-6 PNL	1	4.00	0	100	0	0	0	0	20	0	0
7B	86 CHECK MASTER ELEC SW ON P-6 PNL	1 2	4.00 2.00	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7B	87 CHECK CBSS ON P-18 PNL	1	4.00	0	100	0	0	0	0	20	0	0
7B	88 CHECK ENG NO.1 GEN UP DISCON SW SAFETIED	1	1.33	0	100	0	0	0	0	20	0	0
7B	89 CHECK ENG NO.2 GEN DR DISCON SW SAFETIED	1	.80	0	100	0	0	0	0	20	0	0
7B	90 CHECK THAT CSD DRIVE TEMP SW SET TO IN	1	1.39	0	100	0	0	0	0	20	0	0
7B	91 CHECK THAT BUS TX SW IS SET TO AUTO	1	1.23	0	100	0	0	0	0	20	0	0
7B	92 CHECK THAT EQUIP COOLING SW IS SET TO NORMAL	1	1.35	0	100	0	0	0	0	20	0	0
7B	93 MON GALLY POWER SW SET TO ON	1	1.41	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
78 94	MON GALLEY POWER SW SET TO OFF	1	1.41	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
7C	01 MON V-REF INDIC	1	2.30	0	100	0	0	0	0	20	0	0
7C	02 SET ZERO FUEL WT SEL	1	4.00	0	20	0	100	0	0	20	0	0
7C	03 MON ZERO FUEL WT	1	4.00	0	100	0	0	0	0	20	0	0
7C	07 SET LANDING FLAP SEL	1	1.80	0	100	0	100	0	0	20	0	0
7C	09 MON TANK NO 1 FUEL QTY INDIC	1	2.02	0	100	0	0	0	0	20	0	0
		2	2.27	0	100	0	0	0	0	20	0	0
7C	10 MON TANK NO.2 FUEL QTY INDIC	1	2.02	0	100	0	0	0	0	20	0	0
		2	2.27	0	100	0	0	0	0	20	0	0
7C	11 MON CTR TANK FUEL QTY INDIC	1	2.10	0	100	0	0	0	0	20	0	0
		2	2.46	0	100	0	0	0	0	20	0	0
7C	12 MON FUEL TEMP INDIC	1	2.05	0	100	0	0	0	0	20	0	0
7C	13 MON CROSSFEED VALVE OPEN LT OFF	1	.55	0	100	0	0	0	0	20	0	0
7C	14 MON CROSSFEED VALVE OPEN LT ON BRIGHT	1	.55	0	100	0	0	0	0	20	0	0
7C	15 MON CROSSFEED VALVE OPEN LT ON DIM	1	.55	0	100	0	0	0	0	20	0	0
7C	16 SET CROSSFEED SEL SW TO UPIN	1	2.79	0	100	0	100	0	0	20	0	0
		2	2.02	0	100	0	100	0	0	20	0	0
7C	17 SET CROSSFEED SEL SW TO CLOSED	1	2.79	0	100	0	100	0	0	20	0	0
		2	2.02	0	100	0	100	0	0	20	0	0
7C	18 SET ENG NO 1 FUEL HT SW TO ON	1	1.99	0	100	0	100	0	0	20	0	0
7C	19 SET ENG NO.1 FUEL HT SW TO OFF	1	1.99	0	100	0	100	0	0	20	0	0
7C	20 MON CTR TANK LEFT FUEL PUMP LO PRESS LT ON	1	.69	0	100	0	0	0	0	20	0	0
		2	.55	0	100	0	0	0	0	20	0	0
7C	21 MON CTR TANK LEFT FUEL PUMP LO PRESS LT OFF	1	.69	0	100	0	0	0	0	20	0	0
		2	.55	0	100	0	0	0	0	20	0	0
7C	22 MON CTR TANK RIGHT FUEL PUMP LO PRESS LT ON	1	.55	0	100	0	0	0	0	20	0	0
		2	.69	0	100	0	0	0	0	20	0	0

TASK CODE	NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
					EV	IV	LH	RH	LF	RF	COG	AUD	VBL
7C	23	MON CTR TANK RIGHT	1	.55	0	100	0	0	0	0	20	0	0
		FUEL PUMP LG PRESS	2	.89	0	100	0	0	0	0	20	0	0
		LT OFF											
7C	24	SET CTR TANK LEFT	1	1.45	0	100	0	100	0	0	20	0	0
		FUEL PUMP SW TO ON	2	2.35	0	100	0	100	0	0	20	0	0
7C	25	SET CTR TANK LEFT	1	1.45	0	100	0	100	0	0	20	0	0
		FUEL PUMP SW TO OFF	2	2.35	0	100	0	100	0	0	20	0	0
			3	2.35	0	100	100	0	0	0	20	0	0
			4	1.45	0	100	100	0	0	0	20	0	0
7C	26	SET CTR TANK RIGHT	1	1.45	0	100	0	100	0	0	20	0	0
		FUEL PUMP SW TO ON	2	2.35	0	100	0	100	0	0	20	0	0
7C	27	SET CTR TANK RIGHT	1	1.45	0	100	0	100	0	0	20	0	0
		FUEL PUMP SW TO OFF	2	2.35	0	100	0	100	0	0	20	0	0
7C	28	MON TANK NO.1 AFT	1	.58	0	100	0	0	0	0	20	0	0
		FUEL PUMP LG PRESS	2	.95	0	100	0	0	0	0	20	0	0
		LT ON											
7C	29	MON TANK NO.1 AFT	1	.58	0	100	0	0	0	0	20	0	0
		FUEL PUMP LG PRESS	2	.95	0	100	0	0	0	0	20	0	0
		LT OFF											
7C	30	SET TANK NO.1 AFT	1	1.97	0	100	0	100	0	0	20	0	0
		FUEL PUMP SW TO ON	2	1.59	0	100	0	100	0	0	20	0	0
			3	2.35	0	100	0	100	0	0	20	0	0
7C	31	SET TANK NO.1 AFT	1	1.97	0	100	0	100	0	0	20	0	0
		FUEL PUMP SW TO OFF	2	1.59	0	100	0	100	0	0	20	0	0
			3	2.35	0	100	0	100	0	0	20	0	0
			4	1.59	0	100	0	100	0	0	20	0	0
7C	32	MON TANK NO.1 FWD	1	.55	0	100	0	0	0	0	20	0	0
		FUEL PUMP LOW PRESS	2	.95	0	100	0	0	0	0	20	0	0
		LT ON											
7C	33	MON TANK NO.1 FWD	1	.55	0	100	0	0	0	0	20	0	0
		FUEL PUMP LOW PRESS	2	.75	0	100	0	0	0	0	20	0	0
		LT OFF											
7C	34	SET TANK NO.1 FWD	1	1.46	0	100	0	100	0	0	20	0	0
		FUEL PUMP SW TO ON	2	1.39	0	100	0	100	0	0	20	0	0
7C	35	SET TANK NO.1 FWD	1	1.40	0	100	0	100	0	0	20	0	0
		FUEL PUMP SW TO OFF	2	1.39	0	100	0	100	0	0	20	0	0
			3	1.39	0	100	0	100	0	0	20	0	0
			4	1.39	0	100	100	0	0	0	20	0	0
7C	36	MON TANK NO.2 FWD	1	.54	0	100	0	0	0	0	20	0	0
		FUEL PUMP LOW PRESS	2	.98	0	100	0	0	0	0	20	0	0
		LT ON											

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7C	37	MON TANK NO.2 FWD FUEL PUMP LOW PRESS LT OFF	1	.55	0	100	0	0	0	0	20	0	0
			2	.95	0	100	0	0	0	0	20	0	0
7C	38	SET TANK NO.2 FWD FUEL PUMP SW TO ON	1	1.45	0	100	0	100	0	0	20	0	0
7C	39	SET TANK NO.2 FWD FUEL PUMP SW TO OFF	1	1.45	0	100	0	100	0	0	20	0	0
			2	1.45	0	100	0	100	0	0	20	0	0
7C	40	MON TANK NO.2 AFT FUEL PUMP LOW PRESS LT ON	1	.58	0	100	0	0	0	0	20	0	0
			2	.95	0	100	0	0	0	0	20	0	0
7C	41	MON TANK NO.2 AFT FUEL PUMP LOW PRESS LT OFF	1	.55	0	100	0	0	0	0	20	0	0
			2	.95	0	100	0	0	0	0	20	0	0
7C	42	SET TANK NO.2 AFT FUEL PUMP SW TO ON	1	1.56	0	100	0	100	0	0	20	0	0
7C	43	SET TANK NO.2 AFT FUEL PUMP SW TO OFF	1	1.56	0	100	0	100	0	0	20	0	0
			2	1.56	0	100	0	100	0	0	20	0	0
7C	44	MON ENG NO.1 FUEL VALVE CLOSED LT OFF	1	.55	0	100	0	0	0	0	20	0	0
			2	.95	0	100	0	0	0	0	20	0	0
7C	45	MON ENG NO.1 FUEL VALVE CLOSED LT ON BRIGHT	1	.55	0	100	0	0	0	0	20	0	0
			2	.95	0	100	0	0	0	0	20	0	0
7C	46	MON ENG NO.1 FUEL VALVE CLOSED LT ON DIM	1	.55	0	100	0	0	0	0	20	0	0
			2	.95	0	100	0	0	0	0	20	0	0
7C	47	MON ENG NO.1 FILTER ICING LT ON	1	.95	0	100	0	0	0	0	20	0	0
			2	.55	0	100	0	0	0	0	20	0	0
7C	48	MON ENG NO.1 FILTER ICING LT OFF	1	.95	0	100	0	0	0	0	20	0	0
			2	.55	0	100	0	0	0	0	20	0	0
7C	49	MON ENG NO.1 VALVE OPEN LT OFF	1	.55	0	100	0	0	0	0	20	0	0
			2	.95	0	100	0	0	0	0	20	0	0
7C	50	MON ENG NO.1 VALVE OPEN LT ON BRIGHT	1	.55	0	100	0	0	0	0	20	0	0
			2	.95	0	100	0	0	0	0	20	0	0
7C	51	MON ENG NO.2 VALVE OPEN LT OFF	1	.55	0	100	0	0	0	0	20	0	0
			2	.95	0	100	0	0	0	0	20	0	0
7C	52	MON ENG NO.2 FUEL VALVE CLOSED LT OFF	1	.55	0	100	0	0	0	0	20	0	0
			2	.95	0	100	0	0	0	0	20	0	0
7C	53	MON ENG NO.2 FUEL VALVE CLOSED LT ON BRIGHT	1	.55	0	100	0	0	0	0	20	0	0
			2	.95	0	100	0	0	0	0	20	0	0



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
7C	54 MON ENG NO.2 FUEL VALVE CLOSED LT ON DIM	1	.55	0	100	0	0	0	0	20	0	0
		2	.95	0	100	0	0	0	0	20	0	0
7C	55 MON ENG NO.2 FILTER ICING LT ON	1	.55	0	100	0	0	0	0	20	0	0
		2	.95	0	100	0	0	0	0	20	0	0
7C	56 MON ENG NO.2 FILTER ICING LT OFF	1	.55	0	100	0	0	0	0	20	0	0
		2	.95	0	100	0	0	0	0	20	0	0
7C	58 MON ENG NO.2 VALVE OPEN LT CN BRIGHT	1	.55	0	100	0	0	0	0	20	0	0
		2	.95	0	100	0	0	0	0	20	0	0
7C	59 MON ENG NO.2 VALVE OPEN LT ON DIM	1	.55	0	100	0	0	0	0	20	0	0
		2	.95	0	100	0	0	0	0	20	0	0
7C	60 SET ENG NO.2 FUEL HT SW TO ON	1	1.62	0	100	0	100	0	0	20	0	0
7C	61 SET ENG NO.2 FUEL HT SW TO OFF	1	1.62	0	100	0	100	0	0	20	0	0
7C	62 MON MASTER CAUTION AND FUEL ANNUN LTS ON	1	.73	0	100	0	0	0	0	20	0	0
7C	63 PRESS MASTER CAUT RESET SW	1	2.02	0	100	0	100	0	0	20	0	0
7C	64 MON FUEL ANNUN LT ON	1	.56	0	100	0	0	0	0	20	0	0
7C	65 MON FUEL ANNUN LT OFF	1	.56	0	100	0	0	0	0	20	0	0
7C	66 PRESS ANNUN PNL RECALL SW	1	2.02	0	100	0	0	0	0	20	0	0
7C	67 CHECK ENG NO.1 FUEL HEAT SW OFF	1	1.14	0	100	0	0	0	0	20	0	0
7C	68 CHECK ENG NO.2 FUEL HEAT SW OFF	1	.83	0	100	0	0	0	0	20	0	0
7C	69 CHECK CROSSFEED VALVE SW CLOSED	1	.61	0	100	0	0	0	0	20	0	0
7C	70 MON FUEL PUMP SWES ALL SET TO ON (6 SWITCHES)	1	1.59	0	100	0	0	0	0	20	0	0
7C	71 MON FUEL PUMP SWES ALL SET TO OFF (6 SWITCHES)	1	1.59	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7C	72 PRESS FUEL QTY TEST SW	1	2.07	0	100	100	0	0	0	0	20	0	0
		2	2.07	0	100	0	100	0	0	0	20	0	0
		3	6.20	0	100	0	100	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
7D	01 MON DUCT PRESS INDIC	1	2.29	0	100	C	0	0	0	20	0	0
7D	02 SET GASPER FAN SW TO ON	1	2.70	0	100	100	0	0	0	20	0	0
		2	2.70	0	100	0	100	0	0	20	0	0
7D	03 SET GASPER FAN SW TO OFF	1	2.70	0	100	100	0	0	0	20	0	0
		2	2.70	0	100	C	100	0	0	20	0	0
7D	04 ACTUATE WING BODY OVRHT TEST SW	1	2.20	0	100	100	0	0	0	20	0	0
7D	05 SET LEFT PACK SW TO ON	1	1.52	0	100	100	0	0	0	20	0	0
		2	2.49	0	100	100	0	0	0	20	0	0
		3	1.52	0	100	C	100	0	0	20	0	0
		4	2.69	0	100	C	100	0	0	20	0	0
7D	06 SET LEFT PACK SW TO OFF	1	1.52	0	100	100	0	0	0	20	0	0
		2	2.49	0	100	100	0	0	0	20	0	0
		3	2.69	0	100	C	100	0	0	20	0	0
7D	07 SET LEFT PACK BLEED SW TO ON	1	2.00	0	100	100	0	0	0	20	0	0
7D	08 SET LEFT PACK BLEED SW TO OFF	1	2.00	0	100	100	0	0	0	20	0	0
7D	09 MON LEFT PACK OFF LT ON	1	1.00	0	100	0	0	0	0	20	0	0
7D	10 MON LEFT PACK OFF LT OFF	1	1.00	0	100	0	0	0	0	20	0	0
7D	11 MON LEFT WING BODY OVRHT LT ON	1	1.00	0	100	0	0	0	0	20	0	0
7D	12 MON LEFT WING BODY OVRHT LT OFF	1	1.00	0	100	0	0	0	0	20	0	0
7D	13 MON LEFT BLEED TRIP OF LT ON	1	1.00	0	100	0	0	0	0	20	0	0
7D	14 MON LEFT BLEED TRIP OFF LT OFF	1	1.00	0	100	0	0	0	0	20	0	0
7D	15 SET LEFT ENG BLEED SW TO ON	1	2.40	0	100	100	0	0	0	20	0	0
		2	1.53	0	100	C	100	0	0	20	0	0
7D	16 SET LEFT ENG BLEED SW TO OFF	1	2.40	0	0	0	0	0	0	0	0	0
		2	1.53	0	0	0	0	0	0	0	0	0
7D	17 SET APU ENG BLEED SW TO ON	1	2.40	0	100	100	0	0	0	20	0	0
		2	1.53	0	100	C	100	0	0	20	0	0

TASK CODE	NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
					EV	IV	LH	RH	LF	RF	COG	AUD	VBL
7D	18	SET APU ENG BLEED SW TO OFF	1	2.40	0	100	100	0	0	0	20	0	0
			2	1.53	0	100	0	100	0	0	20	0	0
7D	19	SET RIGHT PACK SW TO ON	1	2.60	0	100	100	0	0	0	20	0	0
			2	1.52	0	100	0	100	0	0	20	0	0
7D	20	SET RIGHT PACK SW TO OFF	1	2.60	0	100	100	0	0	0	20	0	0
			2	2.60	0	100	0	100	0	0	20	0	0
7D	21	MON RT PACK TRIP OFF LT ON	1	1.00	0	100	0	0	0	0	20	0	0
7D	22	MON RT PACK TRIP OFF LT OFF	1	1.00	0	100	0	0	0	0	20	0	0
7D	23	MON RT WING BODY OVRHT LT ON	1	1.00	0	100	0	0	0	0	20	0	0
7D	24	MON RT WING BODY OVRHT LT OFF	1	1.00	0	100	0	0	0	0	20	0	0
7D	25	MON RT BLEED TRIP OFF LT ON	1	1.00	0	100	0	0	0	0	20	0	0
7D	26	MON RT BLEED TRIP OFF LT OFF	1	1.00	0	100	0	0	0	0	20	0	0
7D	27	SET RT BLEED SW TO ON	1	2.60	0	100	100	0	0	0	20	0	0
			2	1.53	0	100	0	100	0	0	20	0	0
7D	28	SET RT BLEED SW TO OFF	1	2.60	0	100	100	0	0	0	20	0	0
7D	29	ACTUATE PACK/BLEED/ DUCT OVRHT TRIP RESET SW	1	1.88	0	100	100	0	0	0	20	0	0
7D	30	SET ISOLATION VALVE SW TO OPEN	1	1.65	0	100	100	0	0	0	20	0	0
			2	1.77	0	100	100	0	0	0	20	0	0
			3	1.53	0	100	0	100	0	0	20	0	0
7D	31	SET ISOLATION VALVE SW TO CLOSED	1	1.77	0	100	100	0	0	0	20	0	0
			2	1.65	0	100	100	0	0	0	20	0	0
			3	1.53	0	100	0	100	0	0	20	0	0
7D	32	SET ISOLATION VALVE SW TO AUTO	1	1.77	0	100	100	0	0	0	20	0	0
			2	1.65	0	100	100	0	0	0	20	0	0
			3	1.53	0	100	0	100	0	0	20	0	0
7D	33	MON DUAL BLEED LT ON	1	.28	0	100	0	0	0	0	20	0	0
7D	34	MON DUAL BLEED LT OFF	1	.28	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
7D	35	MON LEFT RAM DOOR FULL OPEN LT ON	1 .28	0	100	0	0	0	0	20	0	0
7D	36	MON LEFT RAM DOOR FULL OPEN LT OFF	1 .28	0	100	0	0	0	0	20	0	0
7D	37	MON F OUTFLOW CLOSED LT ON	1 .27	0	100	0	0	0	0	20	0	0
7D	38	MON F OUTFLOW CLOSED LT OFF	1 .27	0	100	0	0	0	0	20	0	0
7D	39	MON RT RAM DOOR FULL OPEN LT ON	1 .28	0	100	0	0	0	0	20	0	0
7D	40	MON RT RAM DOOR FULL OPEN LT OFF	1 .28	0	100	0	0	0	0	20	0	0
7D	41	SET AIR TEMP SOURCE	1 3.21	0	100	100	0	0	0	20	0	0
		SEL SW TO SUPPLY DUCT	2 3.21	0	100	0	100	0	0	20	0	0
7D	42	SFT AIR TEMP SOURCE SEL SW TO PASS CABIN	1 3.21	0	100	100	0	0	0	20	0	0
7D	43	MON TEMP INDIC	1 2.69	0	100	0	0	0	0	20	0	0
			2 2.72	0	100	0	0	0	0	20	0	0
7D	44	MON CONT CABIN AIR	1 2.67	0	100	0	0	0	0	20	0	0
		MIX VALVE INDIC	2 2.61	0	100	0	0	0	0	20	0	0
7D	45	MON PASS CABIN AIR	1 2.65	0	100	0	0	0	0	20	0	0
		MIX VALVE INDIC	2 2.62	0	100	0	0	0	0	20	0	0
			3 2.14	0	100	0	0	0	0	20	0	0
7D	46	MON CONT CAB DUCT	1 .97	0	100	0	0	0	0	20	0	0
		OVHT LT ON	2 .94	0	100	0	0	0	0	20	0	0
7D	47	MON CONT CAB DUCT	1 .97	0	100	0	0	0	0	20	0	0
		OVHT LT OFF	2 .94	0	100	0	0	0	0	20	0	0
7D	48	MON PASS CAB DUCT	1 .94	0	100	0	0	0	0	20	0	0
		OVHT LT ON										
7D	49	MON PASS CAB DUCT	1 .94	0	100	0	0	0	0	20	0	0
		OVHT LT OFF										
7D	50	SET CONT CABIN TEMP	1 3.23	0	100	100	0	0	0	20	0	0
		SEL SW TO AUTO AND	2 2.12	0	100	100	0	0	0	20	0	0
		ADJUST TEMP	3 2.12	0	100	0	100	0	0	20	0	0
7D	51	SET CONT CABIN TEMP	1 3.23	0	100	100	0	0	0	20	0	0
		SEL SW TO OFF	2 2.12	0	100	100	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7D	52 SET CONT CABIN TEMP SEL SW TO COOL	1	3.23	0	100	100	0	0	0	20	0	0	
		2	2.12	0	100	100	0	0	0	20	0	0	
7D	53 SET CONT CABIN TEMP SEL SW TO WARM	1	3.23	0	100	100	0	0	0	20	0	0	
		2	2.12	0	100	100	0	0	0	20	0	0	
7D	54 SET PASS CABIN TEMP SEL SW TO AUTO AND ADJUST TEMP	1	2.12	0	100	100	0	0	0	20	0	0	
		2	3.23	0	100	100	0	0	0	20	0	0	
		3	2.12	0	100	0	100	0	0	20	0	0	
7D	55 SET PASS CABIN TEMP SEL SW TO OFF	1	3.23	0	100	100	0	0	0	20	0	0	
		2	2.12	0	100	100	0	0	0	20	0	0	
7D	56 SET PASS CABIN TEMP SEL SW TO COOL	1	3.23	0	100	100	0	0	0	20	0	0	
		2	2.12	0	100	100	0	0	0	20	0	0	
7D	57 SET PASS CABIN TEMP SEL SW TO WARM	1	3.23	0	100	100	0	0	0	20	0	0	
		2	2.12	0	100	100	0	0	0	20	0	0	
7D	58 MON MASTER CAUTION AND AIR COND ANNUN LTS ON	1	.70	0	100	100	0	0	0	20	0	0	
		2	.54	0	100	100	0	0	0	20	0	0	
7D	59 ACTUATE MASTER CAUT SESET SW	1	2.14	0	100	100	0	0	0	20	0	0	
7D	60 MON AIR COND ANNUN LT ON	1	.54	0	100	0	0	0	0	20	0	0	
7D	61 MON AIR COND ANNUN LT OFF	1	.54	0	100	0	0	0	0	20	0	0	
7D	62 ACTUATE ANNUN PNL RECALL SW	1	2.14	0	100	100	0	0	0	20	0	0	
7D	63 CHECK THAT ISOLATION VALVE SW IS SET TO AUTO	1	1.35	0	100	0	0	0	0	20	0	0	
7D	64 CHECK THAT ENG NO.1 BLEED SW IS SET TO ON	1	1.31	0	100	0	0	0	0	20	0	0	
7D	65 CHECK THAT ENG NO.2 BLEED SW IS SET TO ON	1	.77	0	100	0	0	0	0	20	0	0	
7D	66 CHECK THAT APU BLEED SW IS SET TO ON	1	.77	0	100	0	0	0	0	20	0	0	
7D	67 MON LEFT PACK SW SET TO ON	1	1.35	0	100	0	0	0	0	20	0	0	
7D	68 MON RT PACK SW SET TO OFF	1	.77	0	100	0	0	0	0	20	0	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
70 65	MON PASS CAB TEMP CONT SETTING	1	2.67	0	100	0	0	0	0	20	0	0
70 70	MON CONT CAB TEMP CONT SETTING	1	2.62	0	100	0	0	0	0	20	0	0

TASK CODE NR.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7E	01	MON CABIN ALT INDIC	1 1.27	0	100	0	0	0	0	20	0	0	
7E	02	MON CABIN RATE OF CLIMB INDIC	1 2.41	0	100	0	0	0	0	20	0	0	
			2 2.45	0	100	0	0	0	0	20	0	0	
			3 2.47	0	100	0	0	0	0	20	0	0	
7E	03	MON ALTITUDE WARNING HORN	1 2.41	0	100	0	0	0	0	20	0	0	
7E	04	ACTUATE ALT HORN CUTOUT SW	1 2.28	0	100	100	0	0	0	20	0	0	
			2 2.42	0	100	0	100	0	0	20	0	0	
7E	05	SET FLT ALT CNT	1 2.50	0	100	0	100	0	0	20	0	0	
7E	06	MON FLT ALT COUNTER	1 1.17	0	100	0	0	0	0	20	0	0	
7E	07	SET LAND ALT CNT	1 2.10	0	100	100	0	0	0	20	0	0	
			2 2.10	0	100	0	100	0	0	20	0	0	
7E	08	MON LAND ALT COUNTER	1 1.17	0	100	0	0	0	0	20	0	0	
7E	09	SET CABIN ALT CNT	1 2.79	0	100	100	0	0	0	20	0	0	
			2 2.79	0	100	0	100	0	0	20	0	0	
7E	10	MON CABIN ALT CNTR	1 1.17	0	100	0	0	0	0	20	0	0	
			2 .88	0	100	0	0	0	0	20	0	0	
7E	11	ADJUST CABIN RATE-OF CLIMB CNT	1 2.13	0	100	100	0	0	0	20	0	0	
			2 2.13	0	100	0	100	0	0	20	0	0	
7E	12	MON OUTFLOW VALVE INDIC	1 2.34	0	100	0	0	0	0	20	0	0	
			2 2.10	0	100	0	0	0	0	20	0	0	
			3 2.03	0	100	0	0	0	0	20	0	0	
7E	13	SET OUTFLOW VALVE SW TO CLOSE	1 2.21	0	100	100	0	0	0	20	0	0	
7E	14	SET OUTFLOW VALVE SW TO OPEN	1 2.21	0	100	100	0	0	0	20	0	0	
7E	15	SET FLT/GRD SW TO FLT	1 2.69	0	100	100	0	0	0	20	0	0	
			2 2.86	0	100	100	0	0	0	20	0	0	
			3 3.06	0	100	0	100	0	0	20	0	0	
7E	16	SET FLT/GRD SW TO GRD	1 2.69	0	100	100	0	0	0	20	0	0	
			2 2.69	0	100	0	100	0	0	20	0	0	
			3 2.86	0	100	100	0	0	0	20	0	0	
			4 3.00	0	100	0	100	0	0	20	0	0	
7E	17	SET PRESS MODE SEL SW TO CHECK	1 2.65	0	100	100	0	0	0	20	0	0	



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
7E 18	SET PRESS MODE SEL SW TO AUTO	1	2.65	0	100	100	0	0	0	20	0	0
		2	2.63	0	100	0	100	0	0	20	0	0
7E 19	SET PRESS MODE SEL SW TO STDBY	1	2.65	0	100	100	0	0	0	20	0	0
7E 20	SET PRESS MODE SEL SW TO MAN-AC	1	2.65	0	100	100	0	0	0	20	0	0
7E 21	SET PRESS MODE SEL SW TO MAN-DC	1	2.65	0	100	100	0	0	0	20	0	0
7E 22	MON AUTO FAIL LT ON	1	.97	0	100	0	0	0	0	20	0	0
7E 23	MON AUTO FAIL LT OFF	1	.97	0	100	0	0	0	0	20	0	0
7E 24	MON OFF SCHED DESCENT LT ON	1	1.33	0	100	0	0	0	0	20	0	0
7E 25	MON OFF SCHED DESCENT LT OFF	1	1.33	0	100	0	0	0	0	20	0	0
7E 26	MON STDBY LT ON	1	.60	0	100	0	0	0	0	20	0	0
		2	.60	0	100	0	0	0	0	20	0	0
7E 27	MON STDBY LT OFF	1	.60	0	100	0	0	0	0	20	0	0
		2	.60	0	100	0	0	0	0	20	0	0
7E 28	MON MANUAL LT ON	1	.65	0	100	0	0	0	0	20	0	0
7E 29	MON MANUAL LT OFF	1	.65	0	100	0	0	0	0	20	0	0
7E 30	MON MASTER CAUTION AND AIR COND ANNUN LTS ON	1	.70	0	100	0	0	0	0	20	0	0
		2	.54	0	100	0	0	0	0	20	0	0
7E 31	PRESS MASTER CAUTION RESET SW	1	2.14	0	100	100	0	0	0	20	0	0
7E 32	MON AIR COND ANNUN LT ON	1	.54	0	100	0	0	0	0	20	0	0
7E 33	MON AIR COND ANNUN LT OFF	1	.54	0	100	0	0	0	0	20	0	0
7E 34	PRESS ANNUN PNL RESET SW	1	2.14	0	100	100	0	0	0	20	0	0
7E 35	MON FLT/GRD SW SET TO FLIGHT	1	.54	0	100	0	0	0	0	20	0	0
7E 36	MON FLT/GRD SW SET TO GROUND	1	.54	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
7F	01 SET ENG VIB PICKUP SW TO TURB	1	1.91	0	100	100	0	0	0	20	0	0
7F	02 SET ENG VIB PICKUP SW TO INLET	1	1.91	0	100	100	0	0	0	20	0	0
7F	03 PRESS ENG VIB TEST SW	1	1.44	0	100	100	0	0	0	20	0	0
		2	2.10	0	100	100	0	0	0	20	0	0
		3	5.48	0	100	0	100	0	0	20	0	0
7F	04 PRESS OIL QTY TEST SW	1	1.36	0	100	100	0	0	0	20	0	0
		2	2.02	0	100	100	0	0	0	20	0	0
		3	1.36	0	100	0	100	0	0	20	0	0
		4	4.25	0	10	0	100	0	0	20	0	0
7F	05 MON NO 1 ENG LO OIL PRESS LT ON	1	.83	0	100	0	0	0	0	20	0	0
7F	06 MON NO 1 ENG LO OIL PRESS LT OFF	1	.83	0	100	0	0	0	0	20	0	0
7F	07 MON NO 1 ENG OIL FILTER BYPASS LT ON	1	.83	0	100	0	0	0	0	20	0	0
7F	08 MON NO 1 ENG OIL FILTER BYPASS LT OFF	1	.83	0	100	0	0	0	0	20	0	0
7F	09 MON NO 1 ENG OIL PRESS INDIC	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.25	0	100	0	0	0	0	20	0	0
		3	.44	0	50	0	0	0	0	20	0	0
7F	10 MON NO 1 ENG OIL TEMP INDIC	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.25	0	100	0	0	0	0	20	0	0
		3	2.28	0	100	0	0	0	0	20	0	0
		4	.44	0	50	0	0	0	0	20	0	0
7F	11 MON NO 1 ENG OIL QTY INDIC	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.25	0	100	0	0	0	0	20	0	0
		3	.44	0	50	0	0	0	0	20	0	0
7F	12 MON NO 1 ENG VIBRA- TION AMPLITUDE INDIC	1	2.05	0	100	0	0	0	0	20	0	0
		2	2.25	0	100	0	0	0	0	20	0	0
		3	2.02	0	100	0	0	0	0	20	0	0
		4	.44	0	50	0	0	0	0	20	0	0
7F	13 MON NO 2 ENG LO OIL PRESS ANNUN LT ON	1	.83	0	100	0	0	0	0	20	0	0
7F	14 MON NO 2 ENG LO OIL PRESS ANNUN LT OFF	1	.83	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
7F	15	MON NO 2 ENG OIL FILTER BYPASS ANNUN LT ON	1 .83	0	100	0	0	0	0	20	0	0
7F	16	MON NO 2 ENG OIL FILTER BYPASS ANNUN LT OFF	1 .83	0	100	0	0	0	0	20	0	0
7F	17	MON NO 2 ENG OIL PRESS INDIC	1 2.05	0	100	0	0	0	0	20	0	0
			2 2.25	0	100	0	0	0	0	20	0	0
			3 .44	0	50	0	0	0	0	20	0	0
7F	18	MON NO 2 ENG OIL TEMP INDIC	1 2.05	0	100	0	0	0	0	20	0	0
			2 2.25	0	100	0	0	0	0	20	0	0
			3 2.02	0	100	0	0	0	0	20	0	0
			4 .44	0	50	0	0	0	0	20	0	0
7F	19	MON NO 2 ENG OIL QTY INDIC	1 2.05	0	100	0	0	0	0	20	0	0
			2 2.25	0	100	0	0	0	0	20	0	0
			3 2.08	0	100	0	0	0	0	20	0	0
			4 .44	0	50	0	0	0	0	20	0	0
7F	20	MON NO 2 ENG VIBR AMPLITUDE INDIC	1 2.05	0	100	0	0	0	0	20	0	0
			2 2.25	0	100	0	0	0	0	20	0	0
			3 2.02	0	100	0	0	0	0	20	0	0
			4 .44	0	50	0	0	0	0	20	0	0
7F	21	MON NO 1 ENG N1 IND	1 2.02	0	100	0	0	0	0	20	0	0
			2 2.52	0	100	0	0	0	0	20	0	0
			3 .44	0	50	0	0	0	0	20	0	0
7F	22	MON NO 2 ENG N1 IND	1 2.02	0	100	0	0	0	0	20	0	0
			2 2.52	0	100	0	0	0	0	20	0	0
			3 .44	0	50	0	0	0	0	20	0	0
7F	23	MON NO 1 ENG N2 IND	1 2.02	0	100	0	0	0	0	20	0	0
			2 2.52	0	100	0	0	0	0	20	0	0
			3 10.00	0	100	0	0	0	0	20	0	0
			4 .44	0	50	0	0	0	0	20	0	0
7F	24	MON NO 2 ENG N2 IND	1 2.02	0	100	0	0	0	0	20	0	0
			2 2.52	0	100	0	0	0	0	20	0	0
			3 10.00	0	100	0	0	0	0	20	0	0
			4 .44	0	50	0	0	0	0	20	0	0
7F	25	MON ENG NO 1 EPR IND	1 2.24	0	100	0	0	0	0	20	0	0
			2 2.02	0	100	0	0	0	0	20	0	0
			3 2.53	0	100	0	0	0	0	20	0	0
			4 .44	0	50	0	0	0	0	20	0	0
7F	26	SET ENG NO 1 EPR BUG	1 5.00	0	20	100	0	0	0	20	0	0
			2 5.00	0	20	0	100	0	0	20	0	0
			3 2.32	0	20	0	100	0	0	20	0	0
			4 2.32	0	20	100	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7F	27	MONITOR ENG NO 1 EPR BUG	1 2	2.00 .76	0 0	100 100	0 0	0 0	0 0	0 0	20 0	0 0	0 0
7F	28	SET ENG NO 2 EPR BUG	1 2 3 4	5.00 5.00 2.32 2.32	0 0 0 0	20 20 20 20	100 0 0 100	0 100 100 0	0 0 0 0	0 0 0 0	20 20 20 20	0 0 0 0	0 0 0 0
7F	29	MONITOR ENG NO 2 EPR BUG	1 2	2.00 .76	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7F	30	MON ENG NO 2 EPR IND	1 2 3	2.24 2.02 .44	0 0 0	100 100 50	0 0 0	0 0 0	0 0 0	0 0 0	20 20 20	0 0 0	0 0 0
7F	31	MON ENG NO 1 EXH GAS TEMP IND	1 2	2.02 .44	0 0	100 50	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7F	32	MON ENG NO 2 EXH GAS TEMP IND	1 2	2.02 .44	0 0	100 50	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7F	33	MON ENG NO 1 FUEL FLOW INDIC	1 2	2.02 .44	0 0	100 50	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7F	34	MON ENG NO 2 FUEL FLOW INDIC	1 2	2.02 .44	0 0	100 50	0 0	0 0	0 0	0 0	20 20	0 0	0 0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7G	01	SET NO SMOKING LT SW TO ON	1	1.80	0	100	0	100	0	0	20	0	0
			2	2.71	0	100	0	100	0	0	20	0	0
7G	02	SET NO SMOKING LT SW TO AUTO	1	1.80	0	100	0	100	0	0	20	0	0
			2	2.71	0	100	0	100	0	0	20	0	0
7G	03	SET NO SMOKING LT SW TO OFF	1	1.80	0	100	0	100	0	0	20	0	0
			2	2.71	0	100	0	100	0	0	20	0	0
7G	04	SET FASTEN SEAT BELT LT SW TO ON	1	1.71	0	100	0	100	0	0	20	0	0
			2	2.71	0	100	0	100	0	0	20	0	0
7G	05	SET FASTEN SEAT BELT LT SW TO AUTO	1	1.71	0	100	0	100	0	0	20	0	0
			2	2.71	0	100	0	100	0	0	20	0	0
7G	06	SET FASTEN SEAT BELT LT SW TO OFF	1	1.71	0	100	0	100	0	0	20	0	0
			2	1.71	0	100	100	0	0	20	0	0	
7G	07	ADJUST PANEL LTS BRIGHTNESS CONTROL	1	2.17	0	100	0	100	0	0	20	0	0
			2	2.10	0	100	0	100	0	0	20	0	0
			3	2.73	0	100	0	100	0	0	20	0	0
7G	08	ADJUST BACKGROUND LTS BRIGHTNESS CONT	1	2.08	0	100	0	100	0	0	20	0	0
			2	2.08	0	100	0	100	0	0	20	0	0
7G	09	ADJUST CIRCUIT BRKR LTS BRIGHTNESS CONT	1	3.31	0	100	0	100	0	0	20	0	0
			2	1.50	0	100	0	100	0	0	20	0	0
7G	10	SET DOME LT SW TO DIM	1	3.43	0	100	0	100	0	0	20	0	0
			2	3.43	0	100	0	100	0	0	20	0	0
7G	11	SET DOME LT SW TO OFF	1	3.43	0	100	0	100	0	0	20	0	0
			2	3.43	0	100	0	100	0	0	20	0	0
7G	12	SET DOME LT SW TO BRIGHT	1	3.43	0	100	0	100	0	0	20	0	0
			2	3.43	0	100	0	100	0	0	20	0	0
7G	13	ADJUST FLOOD LT BRIGHTNESS CONT	1	2.09	0	100	0	100	0	0	20	0	0
			2	2.09	0	100	0	100	0	0	20	0	0
7G	14	ADJUST CONTROL STAND PANEL LTS BRIGHTNESS CONT	1	3.13	0	100	0	100	0	0	20	0	0
			2	3.13	0	100	0	100	0	0	20	0	0
7G	16	SET LANDING LTS SW TO OFF	1	2.20	0	100	0	100	0	0	20	0	0
			2	1.50	0	100	100	0	0	0	20	0	0
7G	17	SET LANDING LIGHTS SW TO ON	1	2.20	0	100	0	100	0	0	20	0	0
			2	2.20	0	100	100	0	0	0	20	0	0
7G	18	SET RUNWAY TURNOFF LTS SW TO ON	1	2.25	0	100	0	100	0	0	20	0	0
			2	2.25	0	100	0	100	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
7G	19 SET RUNWAY TURNOFF LTS SW TO OFF	1	2.25	0	100	0	100	0	0	20	0	0
7G	20 SET TAXI LTS SW TO ON	1	2.42	0	100	0	100	0	0	20	0	0
7G	21 SET TAXI LTS SW TO OFF	1	2.42	0	100	0	100	0	0	20	0	0
7G	22 SET POSITION LTS SW TO ON BAT	1	2.42	0	100	0	100	0	0	20	0	0
7G	23 SET POSITION LTS SW TO OFF	1	2.42	0	100	0	100	0	0	20	0	0
7G	24 SET POSITION LTS SW TO ON	1 2	2.42 1.50	0 0	100 100	0 0	100 100	0 0	0 0	20 20	0 0	0 0
7G	25 SET ANTI-COLLISION LTS SW TO OFF	1 2	2.44 2.44	0 0	100 100	0 100	100 0	0 0	0 0	20 20	0 0	0 0
7G	26 SET ANTI-COLLISION LTS SW TO OFF	1 2	2.44 2.44	0 0	100 100	0 100	100 0	0 0	0 0	20 20	0 0	0 0
7G	27 SET WING LTS SW TO ON	1	2.47	0	100	0	100	0	0	20	0	0
7G	28 SET WING LTS SW TO OFF	1	2.47	0	100	0	100	0	0	20	0	0
7G	29 SET WHEEL WELL LTS SW TO ON	1	2.48	0	100	0	100	0	0	20	0	0
7G	30 SET WHEEL WELL LTS SW TO OFF	1	2.48	0	100	0	100	0	0	20	0	0
7G	31 SET LTS TEST SW TO TEST	1 2	2.35 10.00	0 0	100 100	0 0	100 100	0 0	0 0	20 20	0 0	0 0
7G	32 SET LTS TEST SW TO DIM	1	2.35	0	100	0	100	0	0	20	0	0
7G	33 SET LTS TEST SW TO OFF	1	2.35	0	100	0	100	0	0	20	0	0
7G	34 SET EMER EXIT LTS SW TO OFF	1 2 3	1.90 1.99 1.90	0 0 0	100 100 100	0 0 100	100 100 0	0 0 0	0 0 0	20 20 20	0 0 0	0 0 0
7G	35 SET EMER EXIT LTS SW TO ARMED	1 2	1.90 1.99	0 0	100 100	0 0	100 100	0 0	0 0	20 20	0 0	0 0
7G	36 SET EMER EXIT LTS SW TO ON	1 2	1.90 1.99	0 0	100 100	0 0	100 100	0 0	0 0	20 20	0 0	0 0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
7G	37	MON EMER EXIT LTS NOT ARMED LT ON	1 .54	0	100	0	0	0	0	20	0	0
7G	38	MON EMER EXIT LTS NOT ARMED LT OFF	1 .54	0	100	0	0	0	0	20	0	0
7G	40	MON MASTER CAUTION AND OVHD ANNUN LTS ON	1 .20	0	100	100	0	0	0	20	0	0
			2 .54	0	100	100	0	0	0	20	0	0
7G	41	PRESS MASTER CAUT RESET SW	1 2.14	0	100	100	0	0	0	20	0	0
7G	42	MON OVHD ANNUN LT ON	1 .54	0	100	0	0	0	0	20	0	0
7G	43	MON OVHD ANNUN LT OFF	1 .54	0	100	0	0	0	0	20	0	0
7G	44	PRESS ANNUN PNL RECALL SW	1 2.14	0	100	100	0	0	0	20	0	0
7G	46	MON INSTRUMENT LTS ILLUMINATED BY LT TEST SW	1 10.00	0	100	0	0	0	0	20	0	0
7G	47	MON INST LTS DIMMED WHEN LT TEST SW SET TO DIM	1 10.00	0	100	0	0	0	0	20	0	0
7G	48	MON SEAT BELT AND NO SMOKING LTS SWSS SET TO AUTO	1 1.27	0	100	0	0	0	0	20	0	0
7G	49	MON EMER EXIT LT SW SET TO OFF	1 1.28	0	100	0	0	0	0	20	0	0
7G	50	MON SEAT BELT LT SW SET TO OFF	1 1.28	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
7H 01	MON FLT CREW OXY PRESS INDIC	1	2.81	0	100	0	0	0	0	20	0	0
7H 02	MON PASS OXY PRESS INDIC	1	2.03	0	100	0	0	0	0	20	0	0
7H 03	MON PASS OXY ON LT ON	1	1.59	0	100	0	0	0	0	20	0	0
7H 04	MON PASS OXY ON LT OFF	1	1.59	0	100	0	0	0	0	20	0	0
7H 05	SET PASS OXY SW TO ON	1	3.29	0	100	0	100	0	0	20	0	0
7H 06	SET PASS OXY SW TO NORMAL	1	3.29	0	100	0	100	0	0	20	0	0
7H 07	ACTUATE CREW OXY SHUTOFF VALVE	1	1.40	0	100	0	100	0	0	20	0	0
7H 08	SET OXY EMERGENCY LEVER TO ON	1	1.30	0	100	0	100	0	0	20	0	0
7H 09	SET OXY EMERGENCY LEVER TO OFF	1	1.30	0	100	0	100	0	0	20	0	0
7H 10	SET OXY DILUTER LEVER TO NORMAL	1	1.40	0	100	0	100	0	0	20	0	0
7H 11	SET OXY DILUTER LEVER TO 100 PCT	1	1.40	0	100	0	100	0	0	20	0	0
7H 12	MON OXY FLOW INDIC	1	1.50	0	100	0	0	0	0	20	0	0
7H 13	SET OXY SUPPLY SW TO ON	1	1.40	0	100	0	100	0	0	20	0	0
7H 14	SET OXY SUPPLY SW TO OFF	1	1.40	0	100	0	100	0	0	20	0	0
7H 15	OPEN EMERGENCY OXY MAN ACTUATION ACCESS DOOR	1	1.40	0	100	0	100	0	0	20	0	0
7H 16	PULL EMERGENCY OXY MAN ACTUATION HANDLE	1	1.40	0	100	0	100	0	0	20	0	0
7H 17	PUT ON OXY MASK	1	4.00	0	100	100	100	0	0	20	0	0
7H 18	TAKE OFF OXY MASK AND STEW	1	4.00	0	100	100	100	0	0	20	0	0



TASK CODE	NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
					EV	IV	LH	RH	LF	RF	COG	AUD	VL
7H	19	CHECK PORTABLE OXY BOTTLE PRESS AND MASK	1	5.00	0	100	100	100	0	0	20	0	0
7H	20	SET CREW OXY VALVE TO OPEN	1	2.00	0	100	0	100	0	0	20	0	0
7H	21	MON PASS OXY QTY INDIC	1	2.00	0	100	0	0	0	0	20	0	0
7H	22	INHALE AND CHECK THAT NO AIR OR OXY IS SUPPLIED	1	4.00	0	100	0	0	0	0	20	0	0
7H	23	INHALE AND CHECK THAT COCKPIT AIR IS SUPPLIED	1	4.00	0	100	0	0	0	0	20	0	0
7H	24	INHALE AND CHECK THAT OXY IS SUPPLIED	1	4.00	0	100	100	0	0	0	20	0	0
7H	25	INHALE AND CHECK THAT CONSTANT OXY PRESSURE SUPPLIED	1	4.00	0	100	100	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7J	01 SET WING ANTI-ICE SW TO GRD TEST	1	1.79	0	100	100	0	0	0	20	0	0	
		2	2.76	0	100	100	0	0	0	20	0	0	
7J	02 SET WING ANTI-ICE SW TO ON	1	1.79	0	100	100	0	0	0	20	0	0	
		2	2.76	0	100	100	0	0	0	20	0	0	
7J	03 SET WING ANTI-ICE SW TO OFF	1	1.79	0	100	100	0	0	0	20	0	0	
		2	2.76	0	100	100	0	0	0	20	0	0	
		3	1.79	0	100	0	100	0	0	20	0	0	
7J	04 MON WING ANTI-ICE L VALVE OPEN LT ON	1	.56	0	100	0	0	0	0	20	0	0	
		2	.53	0	100	0	0	0	0	20	0	0	
7J	05 MON WING ANTI-ICE L VALVE OPEN LT OFF	1	.56	0	100	0	0	0	0	20	0	0	
		2	.53	0	100	0	0	0	0	20	0	0	
7J	06 MON WING ANTI-ICE R VALVE OPEN LT ON	1	.56	0	100	0	0	0	0	20	0	0	
		2	.53	0	100	0	0	0	0	20	0	0	
7J	07 MON WING ANTI-ICE R VALVE OPEN LT OFF	1	.56	0	100	0	0	0	0	20	0	0	
		2	.53	0	100	0	0	0	0	20	0	0	
7J	08 SET ENG NO.1 ANTI- ICE SW TO ON	1	1.49	0	100	100	0	0	0	20	0	0	
		2	2.76	0	100	100	0	0	0	20	0	0	
		3	1.68	0	100	100	0	0	0	20	0	0	
7J	09 SET ENG NO.1 ANTI- ICE SW TO OFF	1	1.50	0	100	100	0	0	0	20	0	0	
		2	2.76	0	100	100	0	0	0	20	0	0	
		3	1.68	0	100	100	0	0	0	20	0	0	
		4	1.50	0	100	0	100	0	0	20	0	0	
7J	10 SET ENG NO.2 ANTI- ICE SW TO ON	1	1.50	0	100	100	0	0	0	20	0	0	
		2	2.76	0	100	100	0	0	0	20	0	0	
		3	2.01	0	100	100	0	0	0	20	0	0	
7J	11 SET ENG NO.2 ANTI- ICE SW TO OFF	1	1.50	0	100	100	0	0	0	20	0	0	
		2	2.76	0	100	100	0	0	0	20	0	0	
		3	2.01	0	100	100	0	0	0	20	0	0	
		4	1.50	0	100	0	100	0	0	20	0	0	
7J	12 MON ENG NO.1 L VALVE OPEN LT ON	1	.54	0	100	0	0	0	0	20	0	0	
7J	13 MON ENG NO.1 L VALVE OPEN LT OFF	1	.54	0	100	0	0	0	0	20	0	0	
7J	14 MON ENG NO.2 R VALVE OPEN LT ON	1	.54	0	100	0	0	0	0	20	0	0	
7J	15 MON ENG NO.2 R VALVE OPEN LT OFF	1	.54	0	100	0	0	0	0	20	0	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7J 16	MON ENG NO.1 COWL VALVE OPEN LT ON	1	.54	0	100	C	C	0	0	20	0	0	
7J 17	MON ENG NO.1 COWL VALVE OPEN LT OFF	1	.54	C	100	0	0	0	0	20	0	0	
7J 18	MON ENG NO.2 L VALVE OPEN LT ON	1	.54	0	100	0	C	0	0	20	0	0	
7J 19	MON ENG NO.2 L VALVE OPEN LT OFF	1	.54	0	100	C	0	0	0	20	C	0	
7J 20	MON ENG NO.2 R VALVE OPEN LT ON	1	.54	0	100	C	C	0	C	20	0	C	
7J 21	MON ENG NO.2 R VALVE OPEN LT OFF	1	.54	C	100	C	0	0	0	20	0	0	
7J 22	MON ENG NO.2 COWL VALVE OPEN LT ON	1	.54	0	100	C	C	0	0	20	0	C	
7J 23	MON ENG NO.2 COWL VALVE OPEN LT OFF	1	.54	C	100	C	C	0	0	20	0	C	
7J 24	SET PITOT STATIC SYS A HT SW TO ON	1 2 3	2.75 1.42 1.42	C C C	100 100 100	100 100 C	0 C 100	0 C 0	0 0 0	20 20 20	0 0 0	0 0 0	
7J 25	SET PITOT STATIC SYS A HT SW TO OFF	1 2 3	2.75 1.42 1.42	C C C	100 100 100	100 100 C	C C 100	0 0 0	0 0 0	20 20 20	0 0 0	0 0 0	
7J 26	SET PITOT STATIC SYS B HT SW TO ON	1 2 3	2.75 1.42 1.42	C C 0	100 100 100	100 100 C	C C 100	0 0 0	0 0 0	20 20 20	C 0 0	C 0 0	
7J 27	SET PITOT STATIC SYS B HT SW TO OFF	1 2 3	2.75 1.42 1.42	0 0 C	100 100 100	100 100 C	0 C 100	0 0 0	0 0 0	20 20 20	0 0 0	0 0 0	
7J 28	MON CAPT PITOT HTR LT ON	1	1.13	C	100	C	0	0	0	20	0	0	
7J 29	MON CAPT PITOT HTR LT OFF	1	1.13	0	100	C	0	0	0	20	0	0	
7J 30	MON CAPT STATIC 1 AUX P/S HTR LT ON	1	1.13	0	100	C	C	C	0	20	0	0	
7J 31	MON CAPT STATIC 1 AUX P/S HTR LT OFF	1	1.13	C	100	C	C	0	0	20	0	C	
7J 32	MON L ELEV PITOT HTR LT ON	1	1.13	C	100	C	C	0	0	20	0	C	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
7J 33	MON L ELFV PITOT HTR LT OFF	1	1.13	0	100	0	0	0	0	20	0	0
7J 34	MON F/O PITOT HTR LT ON	1	1.14	0	100	0	0	0	0	20	0	0
7J 35	MON F/O PITOT HTR LT OFF	1	1.14	0	100	0	0	0	0	20	0	0
7J 36	MON F/O STATIC 2 AUX P/S HTR LT ON	1	1.14	0	100	0	0	0	0	20	0	0
7J 37	MON F/O STATIC 2 AUX P/S HTR LT OFF	1	1.14	0	100	0	0	0	0	20	0	0
7J 38	MON R ELFV HTR LT ON	1	1.14	0	100	0	0	0	0	20	0	0
7J 39	MON-R ELFV HTR LT OFF	1	1.14	0	100	0	0	0	0	20	0	0
7J 40	MON MASTER CAUTIONAN ANTI-ICE ANNUN LTS ON	1	.70	0	100	100	0	0	0	20	0	0
		2	.54	0	100	100	0	0	0	20	0	0
7J 41	PRESS MASTER CAUTION RESET SW	1	2.14	0	100	100	0	0	0	20	0	0
7J 42	MON ANTI-ICE ANNUN LT ON	1	.54	0	100	0	0	0	0	20	0	0
7J 43	MON ANTI-ICE ANNUN LT OFF	1	.54	0	100	0	0	0	0	20	0	0
7J 44	PRESS ANNUN PNL RECALL SW	1	2.14	0	100	100	0	0	0	20	0	0
7J 45	MON PITOT STATIC SYS A HT SW SET TO ON	1	1.47	0	100	0	0	0	0	20	0	0
7J 46	MON PITOT STATIC SYS B HT SW SET TO ON	1	.75	0	100	0	0	0	0	20	0	0
7J 47	MON PITOT STATIC SYS A HT SW SET TO OFF	1	1.47	0	100	0	0	0	0	20	0	0
7J 48	MON PITOT STATIC SYS B HT SW SET TO OFF	1	.75	0	100	0	0	0	0	20	0	0
7J 49	MON ENG 1 ANTI-ICE SW SET TO OFF	1	1.42	0	100	0	0	0	0	20	0	0
7J 50	MON ENG 2 ANTI-ICE SW SET TO OFF	1	.76	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7K 01	PUSH L RAIN REPEL SW	1	2.31	0	100	0	100	0	0	20	0	0	
7K 02	PUSH R RAIN REPEL SW	1	1.38	0	100	0	100	0	0	20	0	0	
7K 03	SET WINDSHIELD WIPER SEL SW TO OFF	1	2.37	0	80	0	100	0	0	20	0	0	
7K 04	SET WINDSHIELD WIPER SEL SW TO LOW	1	2.37	0	80	0	100	0	0	20	0	0	
7K 05	SET WINDSHIELD WIPER SEL SW TO HIGH	1	2.37	0	80	0	100	0	0	20	0	0	
7K 06	SET WINDSHIELD WIPER SEL SW TO PARK	1	2.37	0	80	0	100	0	0	20	0	0	
7K 07	SET WINDOW HEAT SWS TO ON	1	4.22	0	100	100	0	0	0	20	0	0	
7K 08	SET WINDOW HEAT SWS TO OFF	2	4.22	0	100	100	0	0	0	20	0	0	
7K 09	MON RAIN REPELLANT QTY INDIC	1	2.00	0	100	0	0	0	0	20	0	0	
7K 10	CHECK WINDSHIELD WIPER SWS SET TO OFF	1	1.19	0	100	0	0	0	0	20	0	0	
7K 11	MON WINDOW HEAT ON LTS GREEN	1	1.14	0	100	0	0	0	0	20	0	0	
7K 12	MON WINDOW HEAT ON LTS OFF	1	1.14	0	100	0	0	0	0	20	0	0	
7K 13	MON WINDOW OVRHT LTS ON	1	1.81	0	100	0	0	0	0	20	0	0	
7K 14	MON WINDOW OVRHT LTS OFF	1	1.81	0	100	0	0	0	0	20	0	0	
7K 15	ACT WINDOW OVRHT TEST SW	1	2.04	0	100	0	0	0	0	20	0	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7L	01	MON APU EXHAUST TEMP GAGE INDIC	1	2.09	0	100	0	0	0	0	20	0	0
7L	02	MON APU AC AMPS IND	1	2.09	0	100	0	0	0	0	20	0	0
			2	2.41	0	100	0	0	0	0	20	0	0
7L	03	MON APU LOW OIL QTY LT ON	1	.85	0	100	0	0	0	0	20	0	0
7L	04	MON APU LOW OIL QTY LT OFF	1	.85	0	100	0	0	0	0	20	0	0
7L	05	MON APU LOW OIL PRESS LT ON	1	.54	0	100	0	0	0	0	20	0	0
7L	06	MON APU LOW OIL PRESS LT OFF	1	.54	0	100	0	0	0	0	20	0	0
7L	07	MON APU HIGH OIL TEMP LT ON	1	.54	0	100	0	0	0	0	20	0	0
7L	08	MON APU HIGH OIL TEMP LT OFF	1	.54	0	100	0	0	0	0	20	0	0
7L	09	MON APU EVRSPD LT ON	1	.54	0	100	0	0	0	0	20	0	0
7L	10	MON APU EVRSP LT OFF	1	.54	0	100	0	0	0	0	20	0	0
7L	11	SET APU SW TO OFF	1	3.59	0	100	0	100	0	0	20	0	0
			2	2.73	0	100	0	100	0	0	20	0	0
			3	2.57	0	100	0	100	0	0	20	0	0
			4	2.29	0	100	0	100	0	0	20	0	0
7L	12	SET APU SW TO ON	1	3.59	0	100	0	100	0	0	20	0	0
			2	2.73	0	100	0	100	0	0	20	0	0
			3	2.57	0	100	0	100	0	0	20	0	0
			4	2.29	0	100	0	100	0	0	20	0	0
7L	13	SET APU SW TO START- MOMENTARY ACTION	1	3.59	0	100	0	100	0	0	20	0	0
			2	2.73	0	100	0	100	0	0	20	0	0
			3	2.57	0	100	0	100	0	0	20	0	0
			4	2.29	0	100	0	100	0	0	20	0	0
7L	14	MON MASTER CAUTION AND APU ANNUN LTS ON	1	.73	0	100	0	0	0	0	20	0	0
7L	15	PRESS MASTER CAUTION RESET SW	1	2.14	0	100	100	0	0	0	20	0	0
7L	16	MON APU ANNUN LT ON	1	.54	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7L 17	MON APU ANNUN LT OFF	1	.54	0	100	0	0	0	0	0	20	0	0
7L 18	PRESS ANNUN RNL RECALL SW	1	2.14	0	100	100	0	0	0	0	20	0	0
7L 19	OPEN CB C6 ON P6-5 PANEL	1	5.00	0	100	0	100	0	0	0	20	0	0
7L 20	MON APU START SW SET TO OFF	1	.75	0	100	0	0	0	0	0	20	0	0
7L 21	SET APL START SW TO OFF	1	1.50	0	100	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7M	01 SET ENG NO.1 START SW TO OFF	1	3.00	0	80	0	100	0	0	20	0	0	
		2	2.43	0	80	0	100	0	0	20	0	0	
		3	3.54	0	80	0	100	0	0	20	0	0	
		4	1.74	0	80	0	100	0	0	20	0	0	
7M	02 SET ENG NO.1 START SW TO GRD	1	3.00	0	80	0	100	0	0	20	0	0	
		2	2.43	0	80	0	100	0	0	20	0	0	
		3	3.54	0	80	0	100	0	0	20	0	0	
		4	1.74	0	80	0	100	0	0	20	0	0	
7M	03 SET ENG NO.1 START SW TO FLT	1	3.00	0	80	0	100	0	0	20	0	0	
		2	2.43	0	80	0	100	0	0	20	0	0	
		3	3.54	0	80	0	100	0	0	20	0	0	
		4	1.74	0	80	0	100	0	0	20	0	0	
7M	04 SET ENG NO.2 START SW TO OFF	1	3.00	0	80	0	100	0	0	20	0	0	
		2	2.43	0	80	0	100	0	0	20	0	0	
		3	3.54	0	80	0	100	0	0	20	0	0	
		4	1.74	0	80	0	100	0	0	20	0	0	
7M	05 SET ENG NO.2 START SW TO GRD	1	3.00	0	80	0	100	0	0	20	0	0	
		2	2.43	0	80	0	100	0	0	20	0	0	
		3	3.54	0	80	0	100	0	0	20	0	0	
		4	1.74	0	80	0	100	0	0	20	0	0	
7M	06 SET ENG NO.2 START SW TO FLT	1	3.00	0	80	0	100	0	0	20	0	0	
		2	2.43	0	80	0	100	0	0	20	0	0	
		3	3.54	0	80	0	100	0	0	20	0	0	
		4	1.74	0	80	0	100	0	0	20	0	0	
7M	07 SET ENG NO.1 START LEVER TO START	1	2.51	0	80	0	100	0	0	20	0	0	
7M	08 SET ENG NO.1 START LEVER TO CUTOFF	1	3.00	0	80	0	100	0	0	20	0	0	
		2	2.80	0	80	0	100	0	0	20	0	0	
		3	3.24	0	80	0	100	0	0	20	0	0	
		4	3.24	0	80	100	0	0	0	20	0	0	
7M	09 SET ENG NO.2 START LEVER TO START	1	2.51	0	100	0	100	0	0	20	0	0	
7M	10 SET ENG NO.2 START LEVER TO CUTOFF	1	3.24	0	100	0	100	0	0	20	0	0	
		2	2.51	0	100	0	100	0	0	20	0	0	
		3	2.51	0	100	100	0	0	0	20	0	0	
7M	11 MON ENG START SWSS IN FLT PCS	1	.52	0	100	0	0	0	0	20	0	0	
7M	12 CHECK ENG NO.1 START SW SET TO OFF	1	2.41	0	100	0	0	0	0	20	0	0	
		2	1.50	0	100	0	0	0	0	20	0	0	



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL	
7M 13	CHECK THAT ENG NO.2 START SW SET TO OFF	1	2.02	0	100	0	0	0	0	0	20	0	0
		2	.78	0	100	0	0	0	0	0	20	0	0
7M 14	CHECK THAT ENG START LEVERS IN OFF POS	1	1.30	0	100	0	0	0	0	0	20	0	0
		2	.78	0	100	0	0	0	0	0	20	0	0
7M 15	MON ENG 2 START LVR AUTOMATICALLY MOVED TO OFF	1	1.30	0	100	0	0	0	0	0	20	0	0
		2	.78	0	100	0	0	0	0	0	20	0	0
7M 16	MON ENG 1 START LVR AUTOMATICALLY MOVED TO OFF	1	1.30	0	100	0	0	0	0	0	20	0	0
		2	.78	0	100	0	0	0	0	0	20	0	0
7M 17	SET ENG NO.1 START SET TO OFF	1	2.50	0	100	100	0	0	0	0	20	0	0
7M 18	SET ENG NO.2 START SW TO OFF	1	1.50	0	100	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
7P	01 SET ENG NO.1 OVRHT DETEC SW TO NORMAL	1	2.46	0	100	0	100	0	0	20	0	0
7P	02 SFT ENG NO.1 OVRHT DETEC SW TO FIRE	1	2.46	0	100	0	100	0	0	20	0	0
7P	03 SET ENG NO.2 OVRHT DETEC SW TO NORMAL	1	1.63	0	100	0	100	0	0	20	0	0
7P	04 SET ENG NO.2 OVRHT DETEC SW TO FIRE	1	1.63	0	100	0	100	0	0	20	0	0
7P	05 MOV ENG NO.1 OVRHT LT ON	1 2	.90 .54	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7P	06 MON ENG NO.1 OVRHT LT OFF	1 2	.90 .54	0 0	100 100	0 0	0 0	0 0	0 0	20 0	0 0	0 0
7P	07 MON ENG NO.2 OVRHT LT ON	1 2	.90 .54	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7P	08 MON ENG NO.2 OVRHT LT OFF	1 2	.90 .54	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7P	09 SET OVRHT TEST SW TO OVRHT	1 2	2.20 1.62	0 0	100 100	0 0	100 100	0 0	0 0	20 20	0 0	0 0
7P	10 SET OVRHT TEST SW TO FIRE	1	.50	0	100	0	100	0	0	20	0	0
7P	11 ACTUATE EXT TEST SW	1	1.63	0	25	0	100	0	0	20	0	0
7P	12 MON EXT TEST LTS ON	1	.54	0	75	0	0	0	0	20	0	0
7P	13 MON WHEEL WELL FIRE WARNING LT ON	1	1.24	0	100	0	0	0	0	20	0	0
7P	14 MON WHEEL WELL FIRE WARNING LT OFF	1	1.24	0	100	0	0	0	0	20	0	0
7P	15 MON ENG NO.1 FIRE WARNING LT ON	1 2 3	.91 .54 5.00	0 0 0	100 100 100	0 0 0	0 0 0	0 0 0	0 0 0	20 20 20	0 0 0	0 0 0
7P	16 MON ENG NO.1 FIRE WARNING LT OFF	1 2 3	.91 .54 15.00	0 0 0	100 100 100	0 0 0	0 0 0	0 0 0	0 0 0	20 20 20	0 0 0	0 0 0
7P	17 PULL ENG NO.1 FIRE WARNING SW HANDLE UP	1 2	1.87 1.87	0 0	100 100	0 100	100 0	0 0	0 0	20 20	0 0	0 0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7P	18	ROTATE ENG NO.1 FIRE WARNING SW HANDLE TO LEFT	1 2	2.13 2.13	0 0	100 100	0 100	100 0	0 0	0 0	20 20	0 0	0 0
7P	19	ROTATE ENG NO.1 FIRE WARNING SW HANDLE TO RIGHT	1	2.33	0	100	0	100	0	0	20	0	0
7P	20	ACTUATE ENG NO.1 FIRE WARNING OVERRID SW	1	2.33	0	100	0	100	0	0	20	0	0
7P	21	MON ENG NO.2 FIRE WARNING LT ON	1 2	.60 .54	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7P	22	MON ENG NO.2 FIRE WARNING LT OFF	1 2	.54 .80	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7P	23	PULL ENG NO.2 FIRE WARNING SW HANDLE UP	1 2	1.73 1.91	0 0	100 100	0 0	100 100	0 0	0 0	20 20	0 0	0 0
7P	24	ROTATE ENG NO.2 FIRE WARNING SW HANDLE TO LEFT	1 2 3	2.33 2.53 2.13	0 0 0	100 100 100	0 0 0	100 100 100	0 0 0	0 0 0	20 20 20	0 0 0	0 0 0
7P	25	ROTATE ENG NO.2 FIRE WARNING SW HANDLE TO RIGHT	1 2	2.53 2.33	0 0	100 100	0 0	100 100	0 0	0 0	20 20	0 0	0 0
7P	26	ACTUATE ENG NO.2 FIRE WARNING OVRRD SW	1	2.53	0	100	0	100	0	0	20	0	0
7P	27	MON L BOTTLE DISCHARGE LT ON	1 2	.58 .27	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7P	28	MON L BOTTLE DISCHARGE LT OFF	1 1	.58 .27	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7P	29	MON R BOTTLE DISCHARGE LT ON	1 2	.58 .26	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7P	30	MON R BOTTLE DISCHARGE LT OFF	1 2	.58 .26	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7P	31	MON APU FIRE WARNING LT ON	1 2	.98 .54	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7P	32	MON APU FIRE WARNING LT OFF	1 2	.98 .54	0 0	100 100	0 0	0 0	0 0	0 0	20 20	0 0	0 0
7P	33	PULL APU FIRE WARNING SW HANDLE UP	1 2	1.16 1.89	0 0	100 100	0 0	100 100	0 0	0 0	20 20	0 0	0 0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
7P 34	ROTATE APU FIRE WARNING SW HANDLE TO LEFT	1	2.33	0	100	0	100	0	0	20	0	0
		2	2.53	0	100	0	100	0	0	20	0	0
		3	2.13	0	100	0	100	0	0	20	0	0
7P 35	ROTATE APJ FIRE WARNING SW HANDLE TO RIGHT	1	2.33	0	100	0	100	0	0	20	0	0
		2	2.53	0	100	0	100	0	0	20	0	0
7P 36	ACTUATE APU FIRE WARNING OVERRIDE SW	1	2.33	0	100	0	100	0	0	20	0	0
7P 37	MON APU BOTTLE DISCHARGED LT ON	1	.27	0	100	0	0	0	0	20	0	0
7P 38	MON APU BOTTLE DISCHARGED LT OFF	1	.27	0	100	0	0	0	0	20	0	0
7P 39	MONITOR FIRE ALARM WARNING LT AND BELL	1	.71	0	100	0	0	0	0	20	100	0
7P 40	PULL FIRE ALARM BELL CUTOFF SW	1	1.50	0	100	0	100	0	0	20	0	0
		2	1.20	0	100	0	100	0	0	20	0	0
		3	.91	0	100	0	100	0	0	20	0	0
7P 41	MON MASTER CAUTION AND OVHT/DET ANNUN LTS ON	1	.73	0	100	0	0	0	0	20	0	0
7P 42	PRESS MASTER CAUTION RESET SW	1	2.14	0	100	100	0	0	0	20	0	0
7P 43	MON OVHT/DET ANNUN LT ON	1	.54	0	100	0	0	0	0	20	0	0
7P 44	MON OVHT/DET ANNUN LT OFF	1	.54	0	100	0	0	0	0	20	0	0
7P 45	PRESS ANNUN PNL RECALL SW	1	2.14	0	100	100	0	0	0	20	0	0
7P 46	MON FIRE WARNING BELL AND ANNUN LTS ON	1	.54	0	100	0	0	0	0	20	100	0
7P 47	PRESS FIRE WARNING ANNUN LT SW	1	1.35	0	100	0	100	0	0	20	0	0
7P 48	MON ENG NO.1 OVRHT DETECT SW ON NORMAL	1	.90	0	100	0	0	0	0	20	0	0
7P 49	MON ENG NO.2 OVRHT DETECT SW ON NORMAL	1	.90	0	100	0	0	0	0	20	0	0
7P 50	MON APU DETECT INOP LT ON	1	.90	0	100	0	0	0	0	20	0	0
		2	.54	0	100	0	0	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7P 51	MON APU DETECT INOP LT OFF	1	.90	0	100	0	0	0	0	0	20	0	0
7P 52	SET OVHT TEST SW TO OFF	1	.50	0	100	0	100	0	0	0	20	0	0
7P 53	MONITOR LIGHT + BELL OFF	1	.54	0	0	0	0	0	0	0	20	100	100

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
7Q	01 PRESS CABIN DOOR UNLOCK SW	1	2.66	0	50	0	100	0	0	20	0	0	
		2	2.44	0	50	0	100	0	0	20	0	0	
		3	3.00	0	50	100	0	0	0	20	0	0	
7Q	02 MON CABIN DOOR LOCK LT ON	1	1.29	0	100	0	0	0	0	20	0	0	
7Q	03 MON CABIN DOOR LOCK LT OFF	1	1.29	0	100	0	0	0	0	20	0	0	
7Q	04 MON MASTER CAUTION AND DOORS ANNUN LTS	1	.73	0	100	0	0	0	0	20	0	0	
7Q	05 PRESS MASTER CAUT RESET SW	1	2.14	0	100	100	0	0	0	20	0	0	
7Q	06 MON DOORS ANNUN LT ON	1	.54	0	100	0	0	0	0	20	0	0	
7Q	07 MON DOORS ANNUN LT OFF	1	.54	0	100	0	0	0	0	20	0	0	
7Q	08 PRESS ANNUN PNL RECALL SW	1	2.14	0	100	100	0	0	0	20	0	0	
7Q	09 MON FWD ENTRY LT ON	1	1.55	0	100	0	0	0	0	20	0	0	
7Q	10 MON FWD ENTRY LT OFF	1	1.55	0	100	0	0	0	0	20	0	0	
7Q	11 ACTUATE FWD ENTRY LT TEST SW	1	2.46	0	100	0	100	0	0	20	0	0	
7Q	12 MON AFT ENTRY LT ON	1	1.55	0	100	0	0	0	0	20	0	0	
7Q	13 MON AFT ENTRY LT OFF	1	1.55	0	100	0	0	0	0	20	0	0	
		2	1.12	0	100	0	0	0	0	20	0	0	
7Q	14 ACTUATE AFT ENTRY LT TEST SW	1	1.38	0	100	0	100	0	0	20	0	0	
7Q	15 MON AIR STAIRS LT ON	1	1.12	0	100	0	0	0	0	20	0	0	
7Q	16 MON AIR STAIRS LT OFF	1	1.12	0	100	0	0	0	0	20	0	0	
7Q	17 ACTUATE AIR STAIRS LT TEST SW	1	1.41	0	100	0	100	0	0	20	0	0	
7Q	18 MON EQUIP / TIRE BURST LT ON	1	1.12	0	100	0	0	0	0	20	0	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
70	19 MON EQUIP / TIRE BURST LT OFF	1	1.12	0	100	0	0	0	0	20	0	0
70	20 ACTUATE EQUIP / TIRE BURST TEST SW	1	1.38	0	100	0	100	0	0	20	0	0
70	21 MON FWD CARGO LT ON	1	1.12	0	100	0	0	0	0	20	0	0
70	22 MON FWD CARGO LT OFF	1	1.12	0	100	0	0	0	0	20	0	0
70	23 ACTUATE FWD CARGO LT TEST SW	1	1.39	0	100	0	100	0	0	20	0	0
70	24 MON AFT CARGO LT ON	1	1.12	0	100	0	0	0	0	20	0	0
70	25 MON AFT CARGO LT OFF	1	1.12	0	100	0	0	0	0	20	0	0
70	26 ACTUATE AFT CARGO LT TEST SW	1	1.38	0	100	0	100	0	0	20	0	0
70	27 MON FWD SERVICE LT ON	1	1.12	0	100	0	0	0	0	20	0	0
70	28 MON FWD SERVICE LT OFF	1	1.12	0	100	0	0	0	0	20	0	0
70	29 ACTUATE FWD SERVICE LT TEST SW	1	1.40	0	100	0	100	0	0	20	0	0
70	30 MON AFT SERVICE LT ON	1	1.12	0	100	0	0	0	0	20	0	0
70	31 MON AFT SERVICE LT OFF	1	1.12	0	100	0	0	0	0	20	0	0
70	32 ACTUATE AFT SERVICE LT TEST SW	1	1.38	0	100	0	100	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
8A160C01	VIEW RUNWAY AHEAD	1	2.00	100	C	C	C	0	0	20	0	0
8A	C2 CAPT. VIEW THRU NO.1 WINDOW	1	2.00	100	C	C	0	0	0	20	0	0
		2	150.00	100	C	C	0	0	0	50	0	0
		3	78.00	100	0	0	0	0	0	50	0	0
		4	45.00	100	C	C	C	0	0	50	0	0
8A	O3 F.O. VIEW THRU NO.1 WINDOW	1	2.00	100	C	C	C	0	0	20	0	0
		2	10.00	10	C	C	0	0	0	10	0	0
		3	240.00	10	C	C	0	0	0	10	0	0
		4	26.00	10	C	C	0	0	0	10	0	0
8A	O4 CAPT. VIEW THRU NO.1 WINDOW	1	100.00	100	C	C	0	0	0	50	0	0
		2	110.00	100	C	C	C	0	0	50	0	0
		3	15.00	100	C	C	C	0	0	50	0	0
		4	30.00	100	C	C	C	C	0	50	0	0
8A	O5 CAPT VIEW THRU NO.1 WINDOW	1	10.00	25	C	C	C	0	0	20	0	0
		2	5.00	25	C	C	0	0	0	20	0	0
		3	30.00	25	C	C	0	0	0	20	0	0
		4	60.00	25	C	C	C	C	0	20	0	0
8A	C6 CAPT VIEW THRU NO.1 WINDOW	1	300.00	25	C	C	0	0	0	20	0	0
		2	120.00	25	C	C	0	0	0	20	0	0
		3	26.00	25	C	C	0	0	0	20	0	0
		4	134.00	25	C	C	C	0	0	20	0	0
8A	C7 F.O. VIEW OUT NO.1 WINDOW	1	134.00	25	C	C	0	0	0	20	0	0
		2	78.00	25	C	C	C	0	0	20	0	0
		3	150.00	25	C	0	0	0	0	20	0	0
		4	10.00	25	C	C	0	0	0	20	0	0



TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL	
88	01	RECORD DATA	1	15.00	0	20	0	100	0	0	20	0	0
			2	2.00	0	100	50	100	0	0	50	0	0
88	02	RETRIEVE CHECKLIST	1	4.00	0	10	0	100	0	0	20	0	0
			2	5.90	0	10	0	100	0	0	20	0	0
			3	5.90	0	10	100	0	0	0	20	0	0
88	03	READ NEXT ITEM ON CHECKLIST	1	2.00	0	100	0	0	0	0	20	0	0
			2	4.00	0	100	0	0	0	0	20	0	0
			3	6.00	0	100	0	0	0	0	20	0	0
			4	8.00	0	100	0	0	0	0	20	0	0
88	04	REFER TO HANDWRITTEN DATA	1	2.00	0	100	0	0	0	0	20	0	0
			2	4.00	0	100	0	0	0	0	20	0	0
			3	8.00	0	100	0	0	0	0	20	0	0
			4	12.00	0	100	0	0	0	0	20	0	0
88	05	FIND CHECKLIST IN HANDBOOK	1	10.00	0	100	50	50	0	0	20	0	0
			2	5.00	0	100	50	50	0	0	20	0	0
88160007		RETRIEVE/REVIEW APPROACH PLATE	1	10.00	0	100	50	50	0	0	20	0	0
88160008		REVIEW/ACKNOWLEDGE APPROACH PLATE DATA	1	10.00	0	100	50	50	0	0	20	0	0
88	06	STOW CHECKLIST	1	3.00	0	50	50	100	0	0	20	0	0
88	06	RETRIEVE CHARTS	1	6.07	0	20	0	100	0	0	10	0	0
			2	6.24	0	20	100	0	0	0	10	0	0
88040001		REVIEW DEPARTURE CHART	1	10.91	0	100	0	100	0	0	20	0	0
			2	10.91	0	100	100	0	0	0	20	0	0
88	07	STOW CHARTS	1	5.91	0	0	0	100	0	0	10	0	0
88010001		RETRIEVE/REVIEW COCKPIT SAFETY INSPEC CHECKLIST	1	20.00	0	100	0	100	0	0	20	0	0
88010002		REFER TO DATA TO DETERMINE NAV AND COMM FREQS	1	5.00	0	100	100	100	0	0	20	0	0
88010003		CHECK THAT MANIFEST, WEIGHT SHEET, AND RELEASE PAPERS OK	1	15.00	0	100	100	100	0	0	80	0	0
88010004		RETRIEVE FLIGHT PLANNING REF. DATA MANUAL	1	3.00	0	50	100	50	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME									
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL	
88010005	STOW FLIGHT PLANNING REF. DATA MANUAL	1	2.00	0	50	100	50	0	0	20	0	0	
88010006	REFER TO REF. DATA AND COMPUTE TAKEOFF EPR BUG SETTING VALUE	1	30.00	0	100	100	100	0	0	80	0	0	
88010007	REFER TO REF. DATA AND COMPUTE TAKEOFF V1 AND VR BUG SET VALUES	1	30.00	0	100	100	100	0	0	80	0	0	
88090001	READ NEXT ITEM ON CHECKLIST ON CONTROL COLUMN PLACARD	1	2.00	0	100	0	0	0	0	20	0	0	
88090002	REVIEW CHARTS TO DETERMINE SPARTAN- BORG VOR FREQ	1	5.00	0	100	100	0	0	0	20	0	0	
88090003	REVIEW CHARTS TO DETERMINE GORDONS- VILLE VOR FREQ	1	5.00	0	100	100	0	0	0	20	0	0	
88110001	REVIEW CHARTS TO DETERMINE PULASKI VOR FREQ	1	5.00	0	100	100	0	0	0	20	0	0	
88140001	REVIEW CHARTS TO DETERMINE TOCCOA VOR FREQ	1	5.00	0	100	100	0	0	0	20	0	0	
88140002	REVIEW CHARTS TO DETERMINE NORCROSS VOR FREQ	1	5.00	0	100	100	0	0	0	20	0	0	
88140003	REVIEW CHARTS TO DETERMINE CHATTA- NOOGA VOR FREQ	1	5.00	0	100	100	0	0	0	20	0	0	
88160001	DETERMINE GO-AROUND EPR BUG SET VALUE	1	5.00	0	100	50	50	0	0	50	0	0	
88200001	COMPLETE AIRPLANE AND FLIGHT FORMS	1	30.00	0	100	50	50	0	0	80	0	0	
88160002	DETERMINE LANDING V-REF BUG SET VALUE	1	5.00	0	100	50	50	0	0	50	0	0	
88160003	REVIEW CHARTS TO DETERMINE RUNWAY 08 ILS FREQ AND REG VOR FREQ	1	5.00	0	100	50	50	0	0	50	0	0	

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
88C20001	RETRIVE LOADING MANIFEST	1	3.00	0	100	0	100	0	0	20	0	0
88C20002	REVIEW LOADING MANI- FEST TO DETERMINE ZERO FUEL WT	1	3.00	0	100	0	100	0	0	20	0	0
88020003	STGW MANIFEST	1	2.00	0	100	0	100	0	0	20	0	0

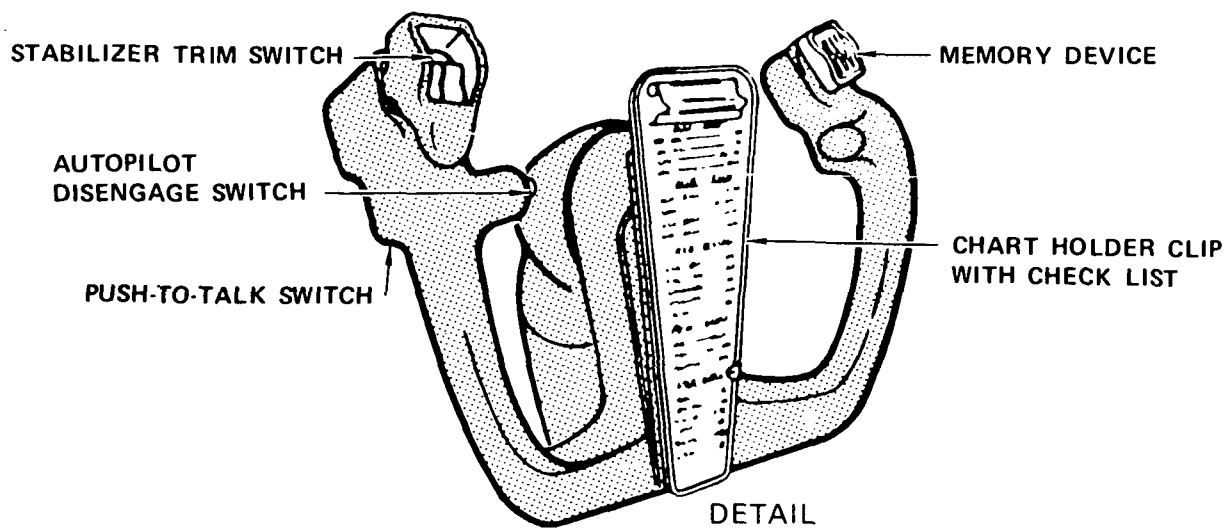
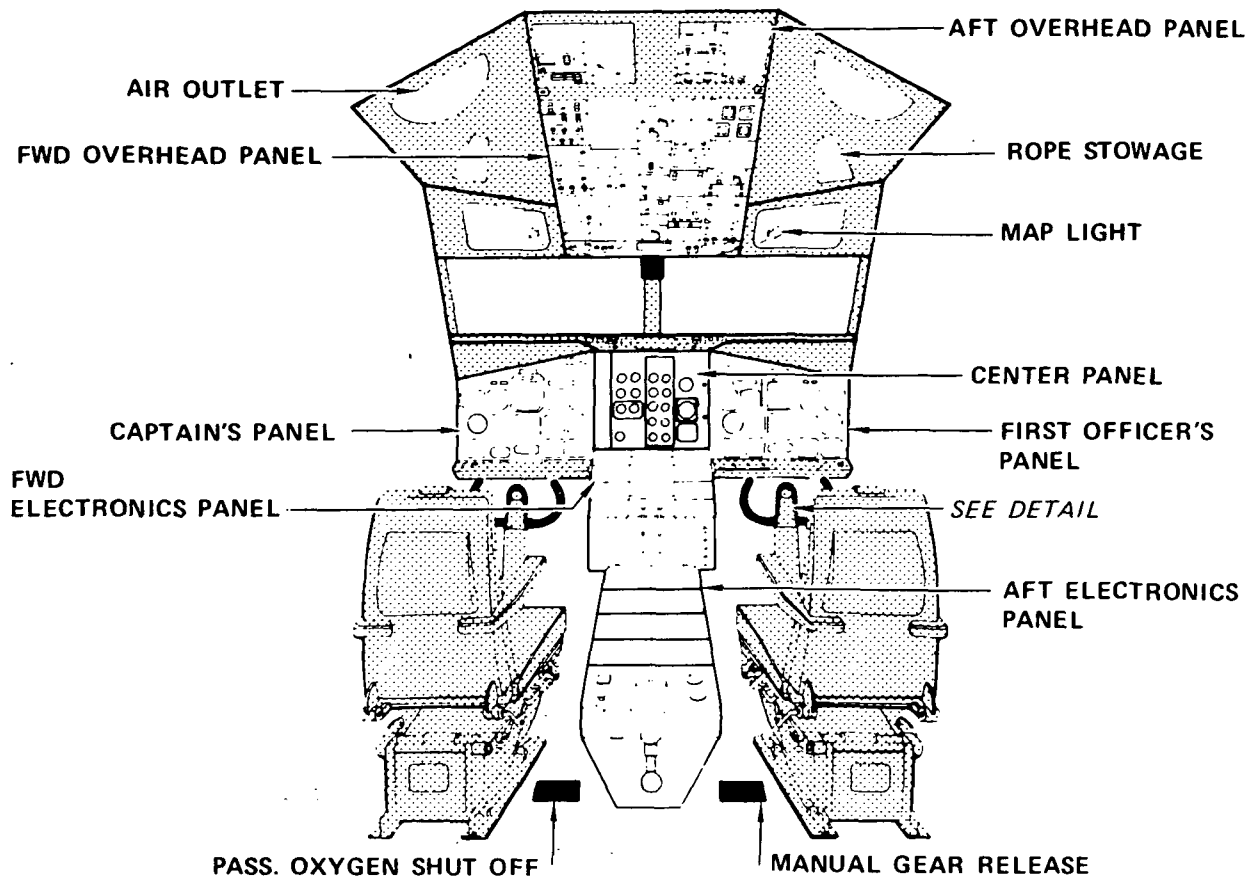
TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
8C	01 FASTEN SEAT BELT AND HARNESS	1	2.20	0	0	100	100	0	0	20	0	0
8C	02 ADJUST SEAT TO ALIGN BALLS	1	10.00	0	100	100	100	100	100	20	0	0
8C	03 TAKE SEAT	1	3.00	0	100	100	100	100	100	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	CDG	AUD	VBL
80	01 CHECK EMERGENCY EQUIPMENT	1	10.00	0	100	100	100	0	0	20	0	0
80	02 CHECK CO2 FIRE EXT BOTTLE	1	5.00	0	100	100	100	0	0	20	0	0
80	03 CHECK FIRE AXE INSTALLED	1	2.00	0	100	0	0	0	0	20	0	0
80	04 CHECK ESCAPE STRAPS	1	1.50	0	100	0	100	0	0	20	0	0

TASK CODE NO.	TASK NAME/DESCRIPTION	S I T	DUR. TIME (SEC)	CHANNEL ACTIVITY - PERCENT OF DUR TIME								
				EV	IV	LH	RH	LF	RF	COG	AUD	VBL
8E	C1 CHECK HEADSET	1	1.50	0	100	100	0	0	0	20	0	0
8E	C2 CHECK SUNVISORS AND SMOKE GOGGLES STOWED	1	3.00	0	100	100	100	0	0	20	0	0
8E	C3 PUT ON HEADSET	1	3.00	0	100	100	100	0	0	20	0	0
8E	C2 PUT ON HEADSET	1	3.00	0	100	100	100	0	0	20	0	0
8E	C2 PUT ON HEADSET	1	3.00	0	100	100	100	0	0	20	0	0
8E	C3 PUT ON HEADSET	1	3.00	0	100	100	100	0	0	20	0	0
8E	C2 PUT ON HEADSET	1	3.00	0	100	100	100	0	0	20	0	0
8E	C3 PUT ON HEADSET	1	3.00	0	100	100	100	0	0	20	0	0

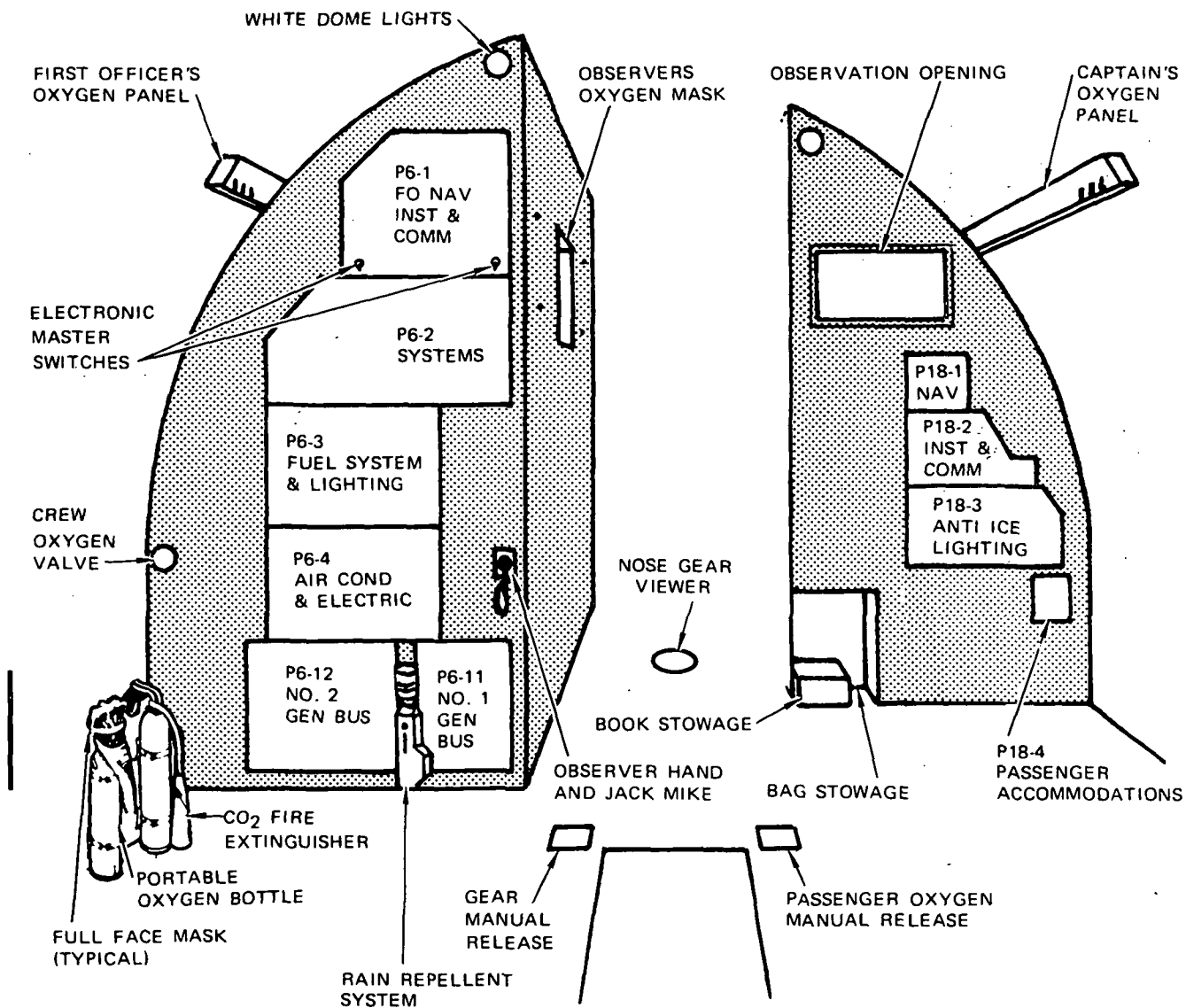
## **APPENDIX SIX**

### **NASA 515 FORWARD FLIGHT DECK INSTRUMENTATION CONFIGURATIONS**

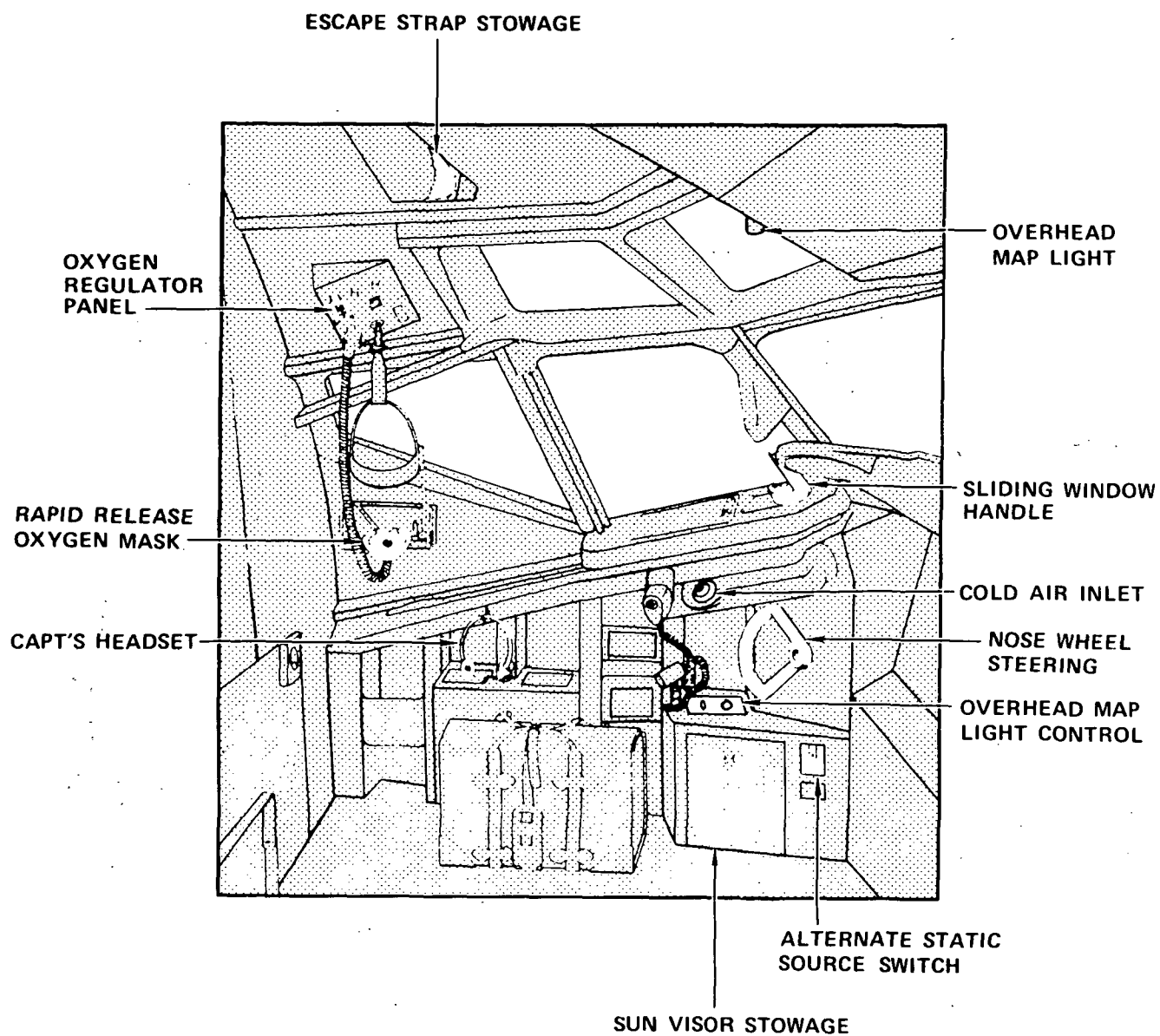


COCKPIT ARRANGEMENT

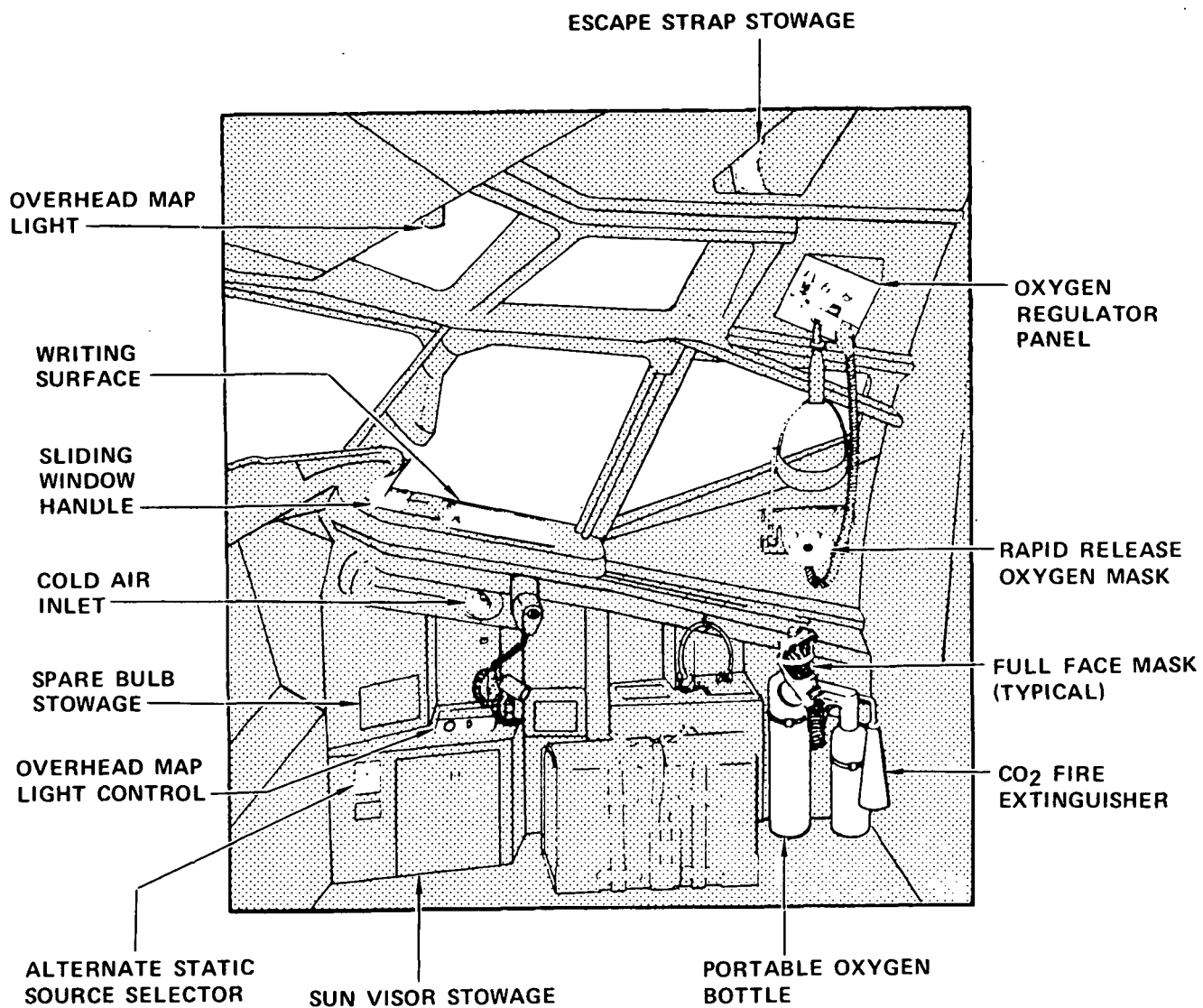




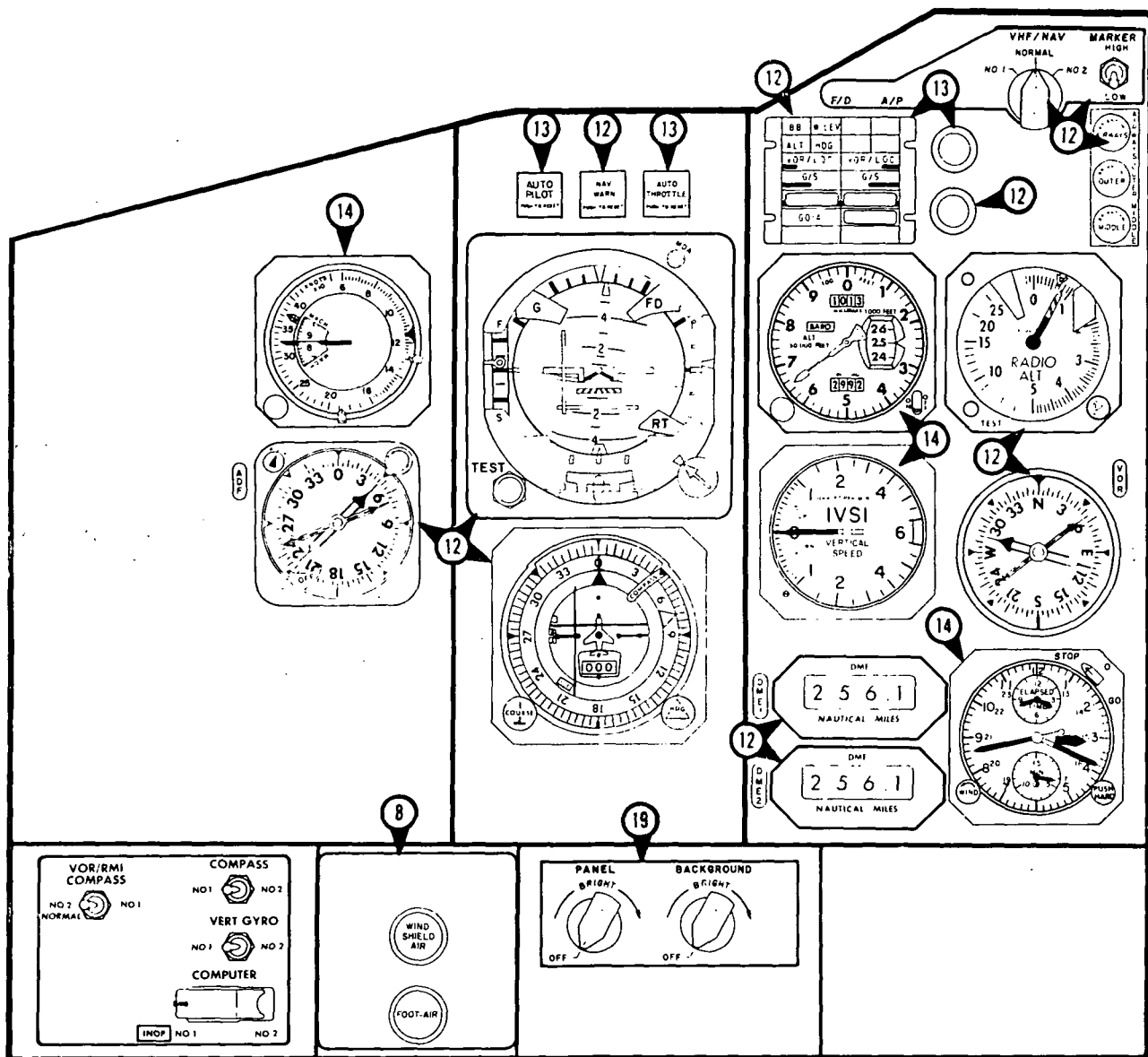
COCKPIT ARRANGEMENT



CAPTAIN'S SIDEWALL



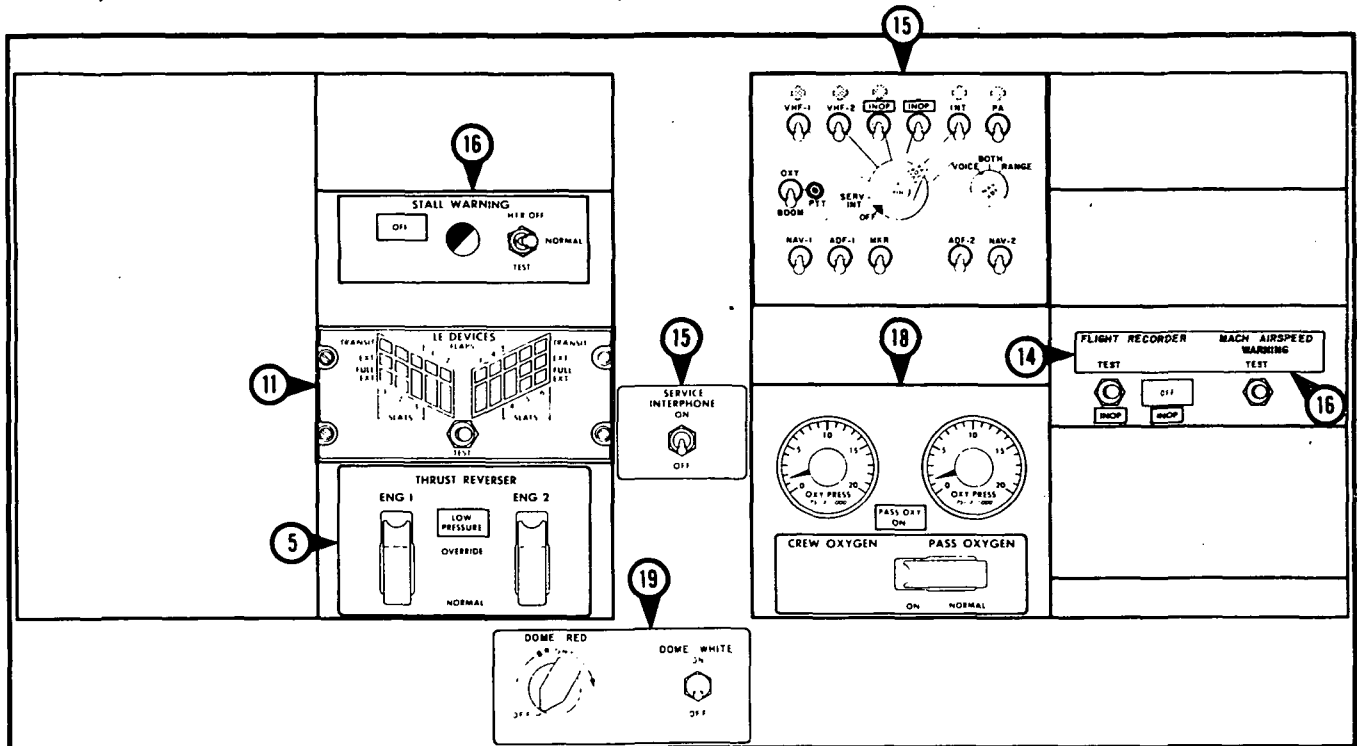
FIRST OFFICER'S SIDEWALL



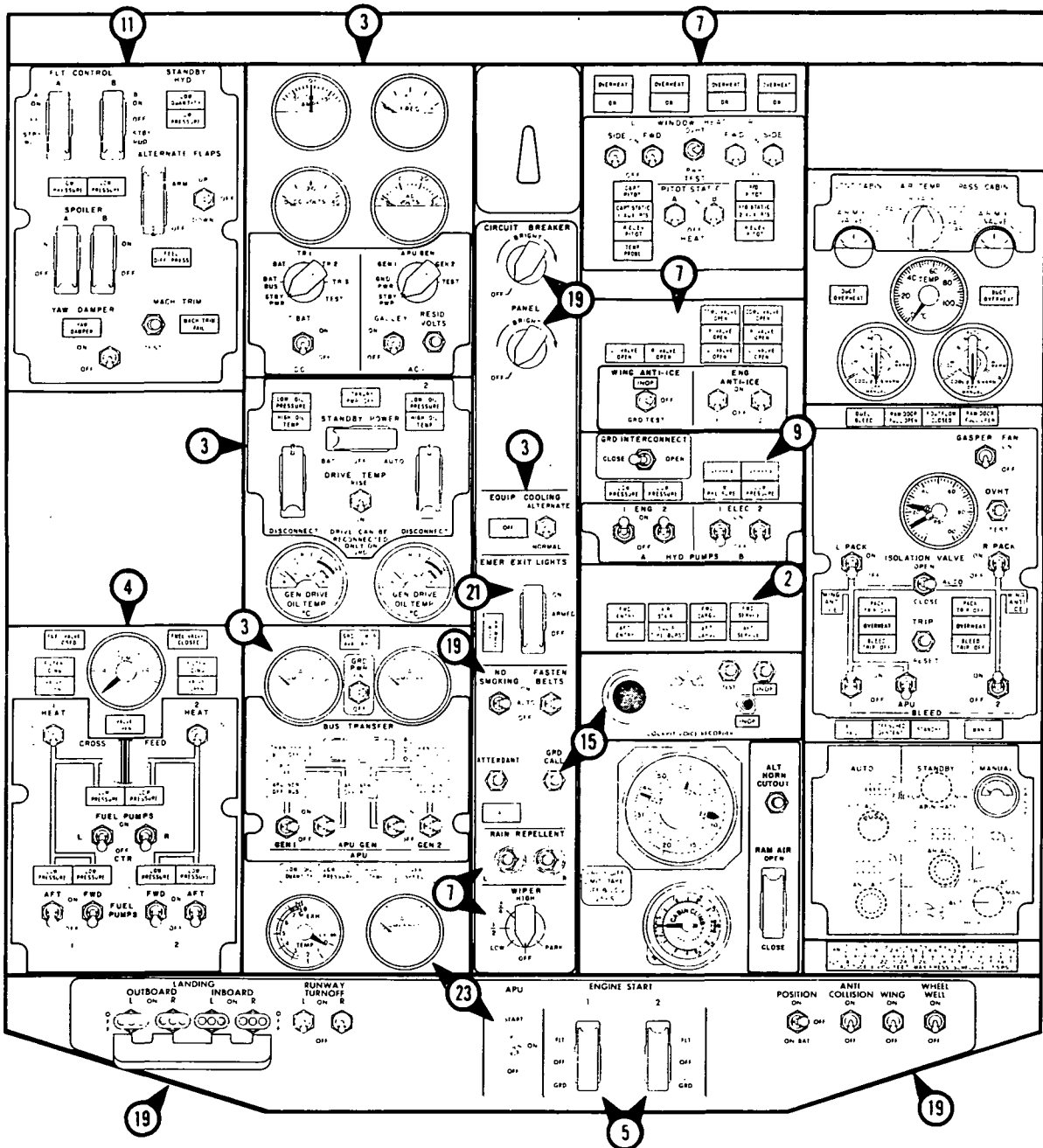
CAPTAINS PANEL







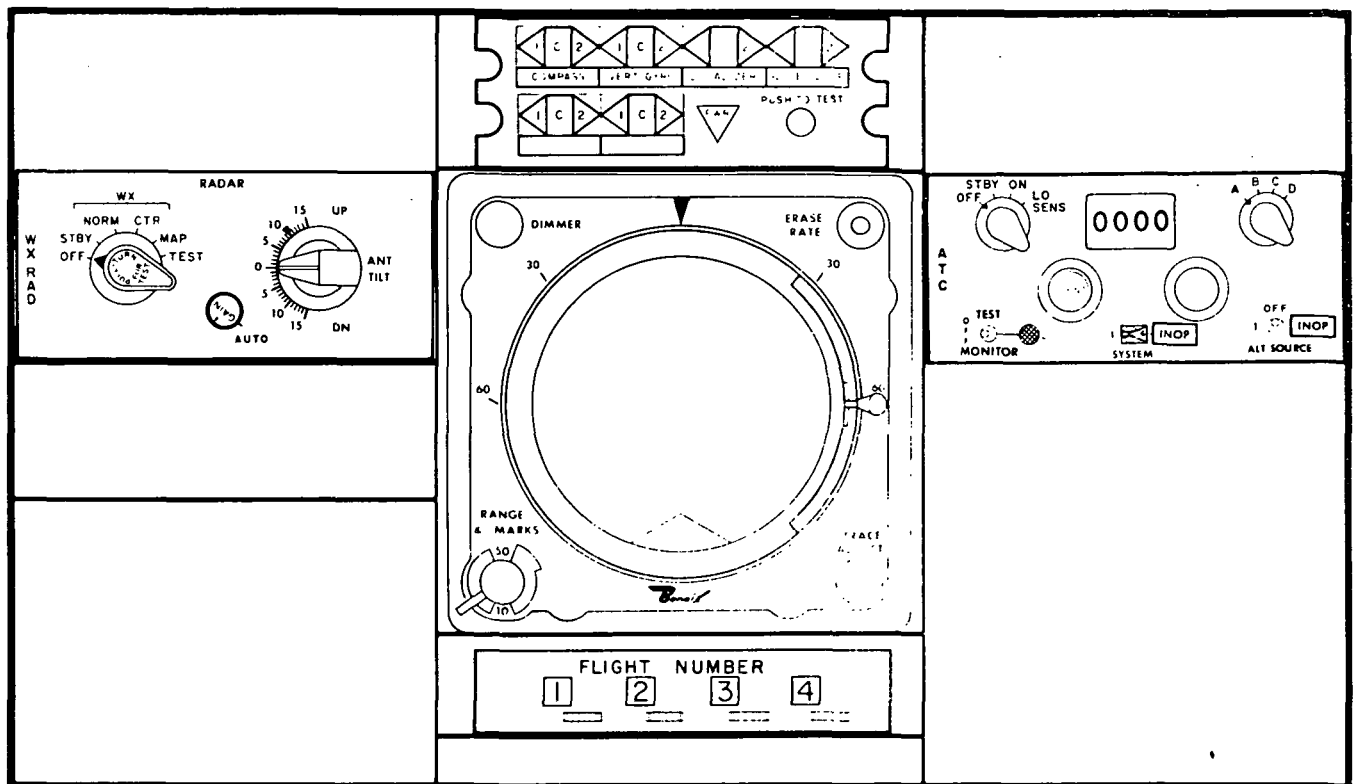
AFT OVERHEAD PANEL



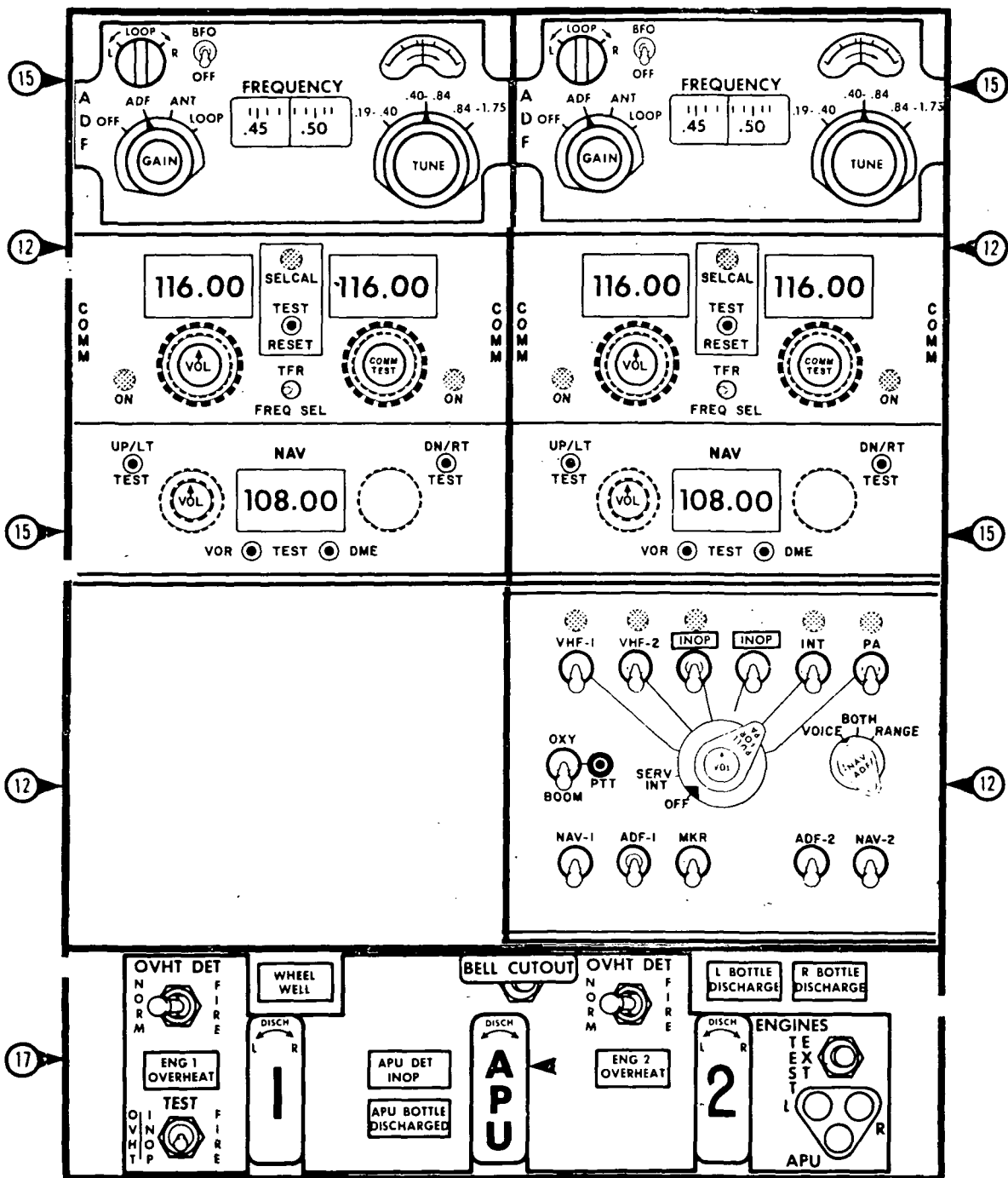
FORWARD OVERHEAD PANEL



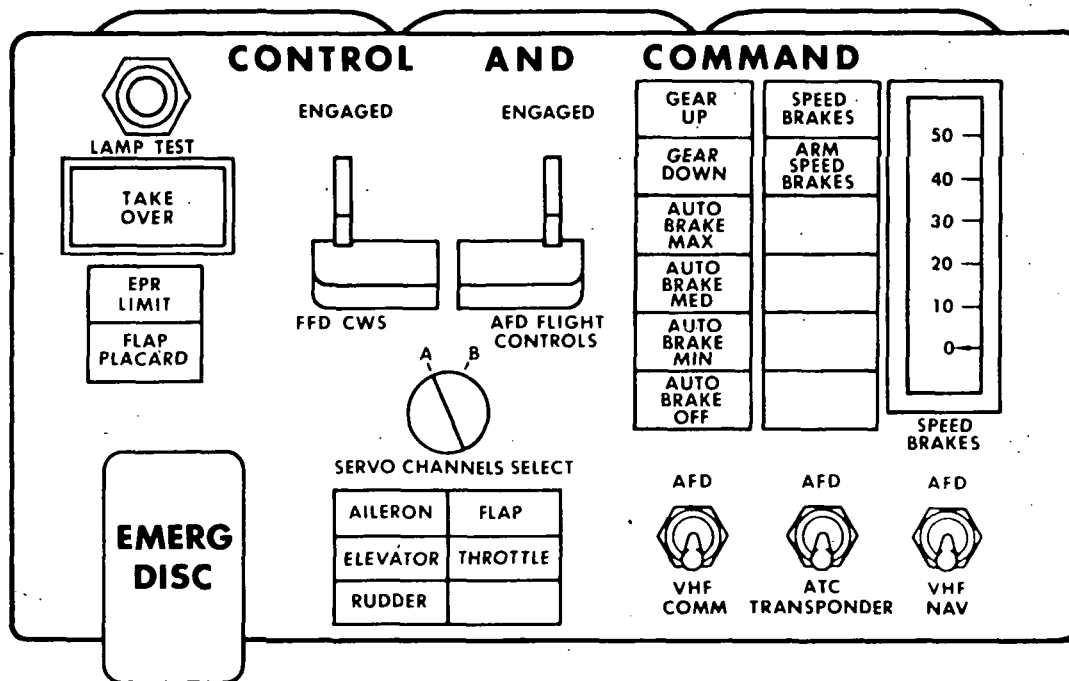
12



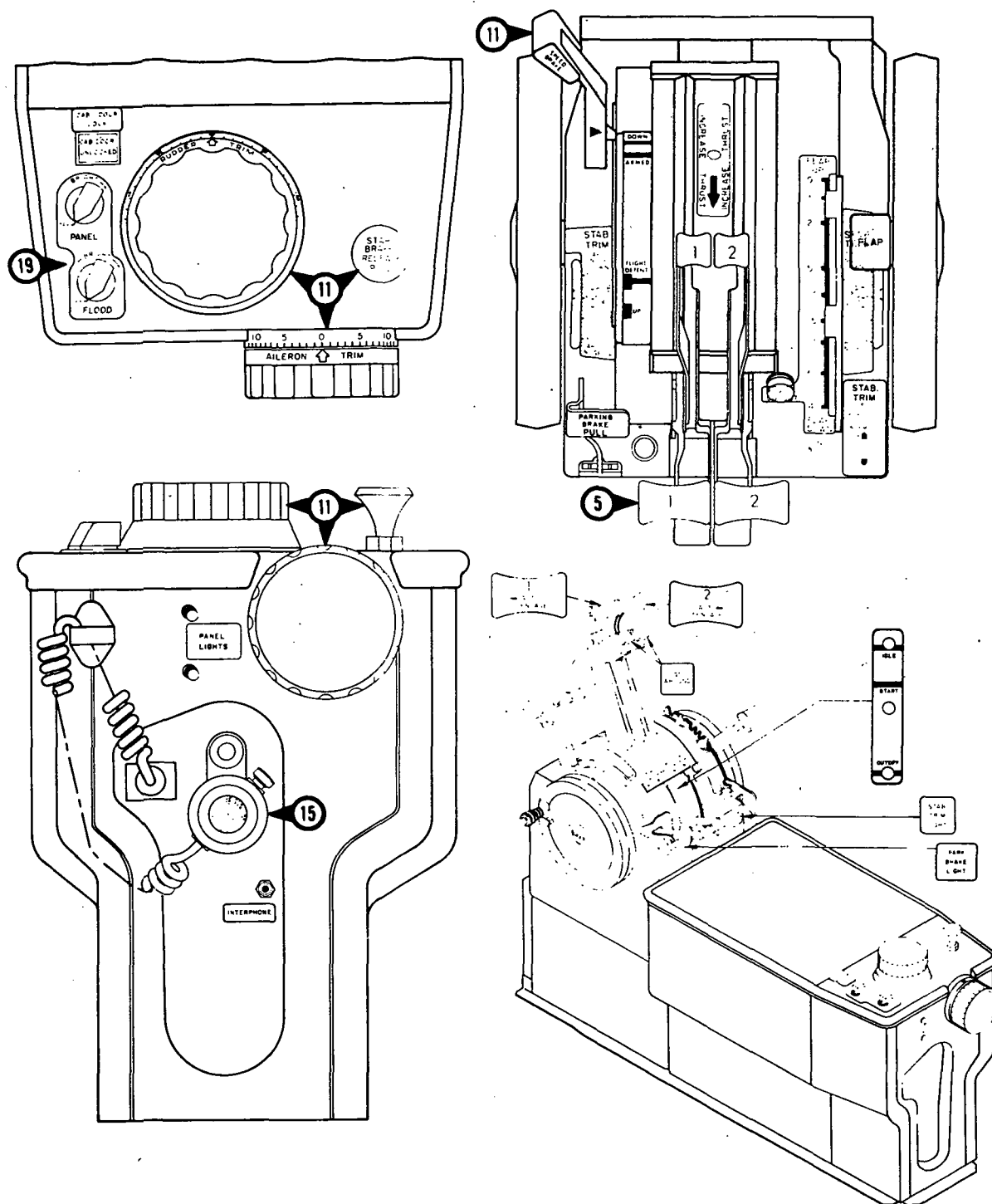
FORWARD ELECTRONIC CONTROL PANEL



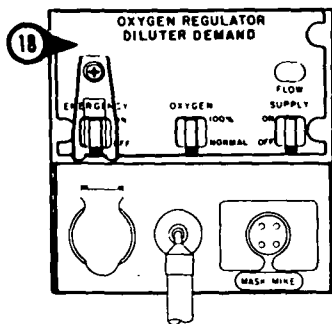
AFT ELECTRONIC CONTROL PANEL



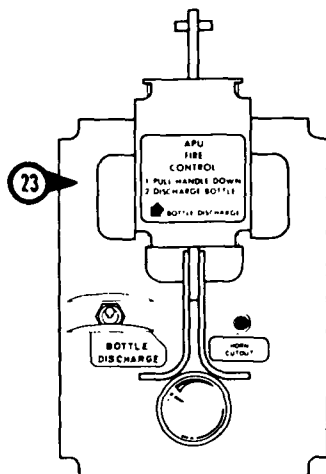
**FED CONTROL AND COMMAND PANEL**



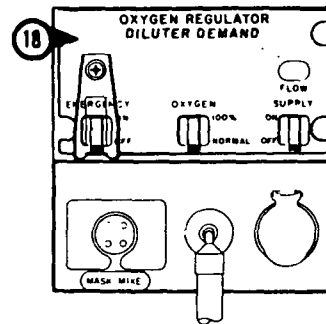
CONTROL STAND



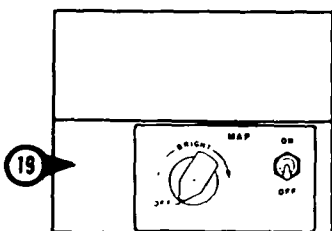
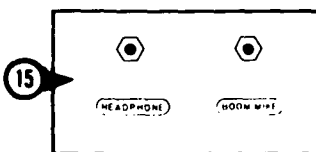
**CAPTAIN'S  
SIDEWALL PANELS**



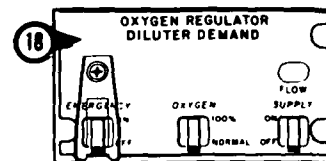
**APU GROUND CONTROL  
PANEL  
(RIGHT WHEEL WELL)**



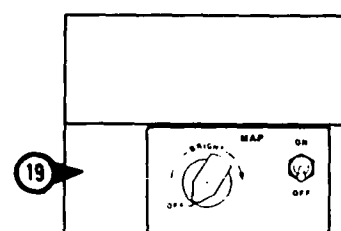
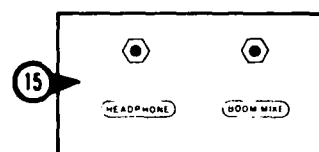
**FIRST OFFICER'S  
SIDEWALL PANELS**



**CAPTAIN'S  
AUXILIARY PANEL**



**OBSERVER'S  
OXYGEN REGULATOR**

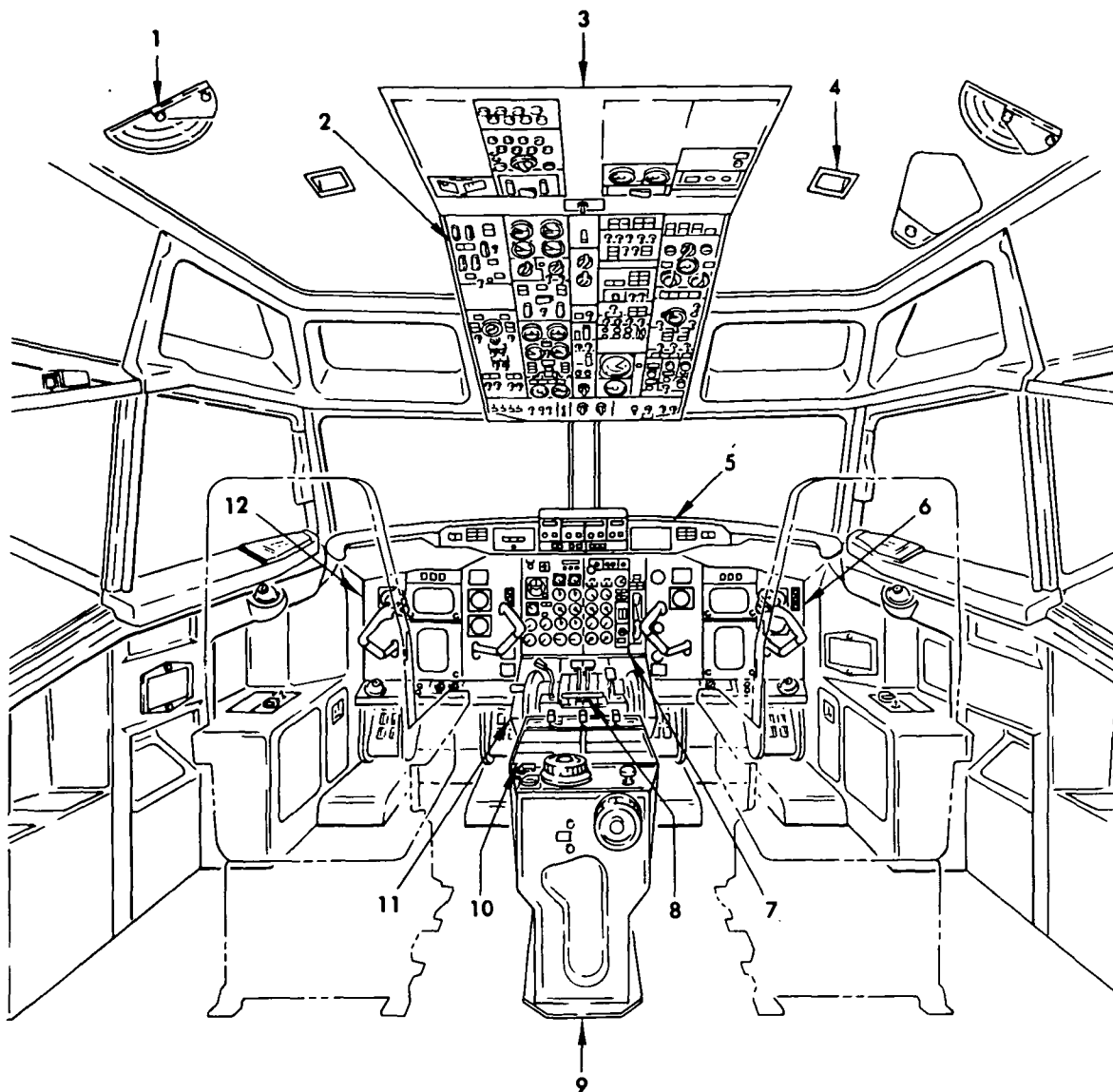


**FIRST OFFICER'S  
AUXILIARY PANEL**

## AUXILIARY PANELS

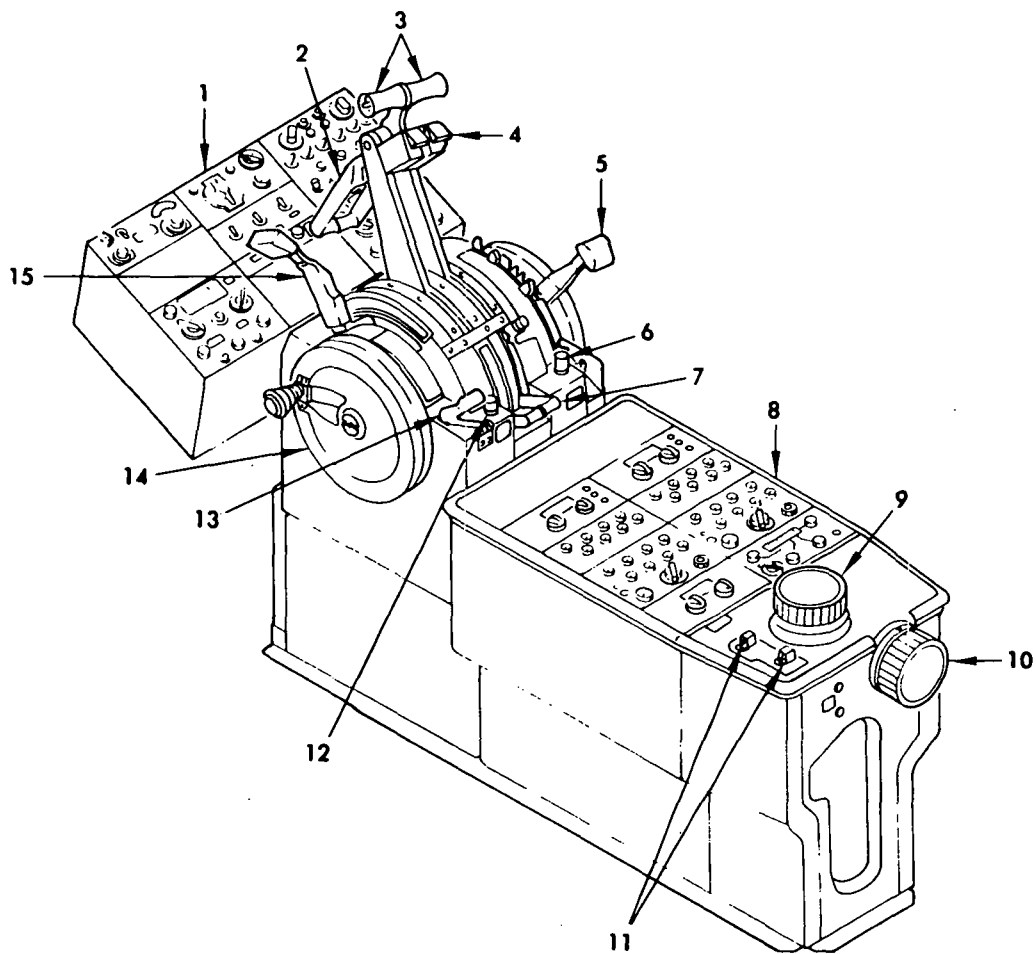
**APPENDIX SEVEN**

**NASA 515 AFT FLIGHT DECK  
INSTRUMENTATION CONFIGURATIONS**



- |                                  |                             |
|----------------------------------|-----------------------------|
| 1 AIR OUTLET                     | 7 CENTER INSTRUMENT PANEL   |
| 2 FORWARD OVERHEAD PANEL (DUMMY) | 8 THROTTLE QUADRANT         |
| 3 AFT OVERHEAD PANEL (DUMMY)     | 9 CONTROL STAND             |
| 4 DOME LIGHT                     | 10 AFT ELECTRONIC PANEL     |
| 5 LIGHT SHIELD PANEL             | 11 FORWARD ELECTRONIC PANEL |
| 6 COPILOTS INSTRUMENT PANEL      | 12 PILOTS INSTRUMENT PANEL  |

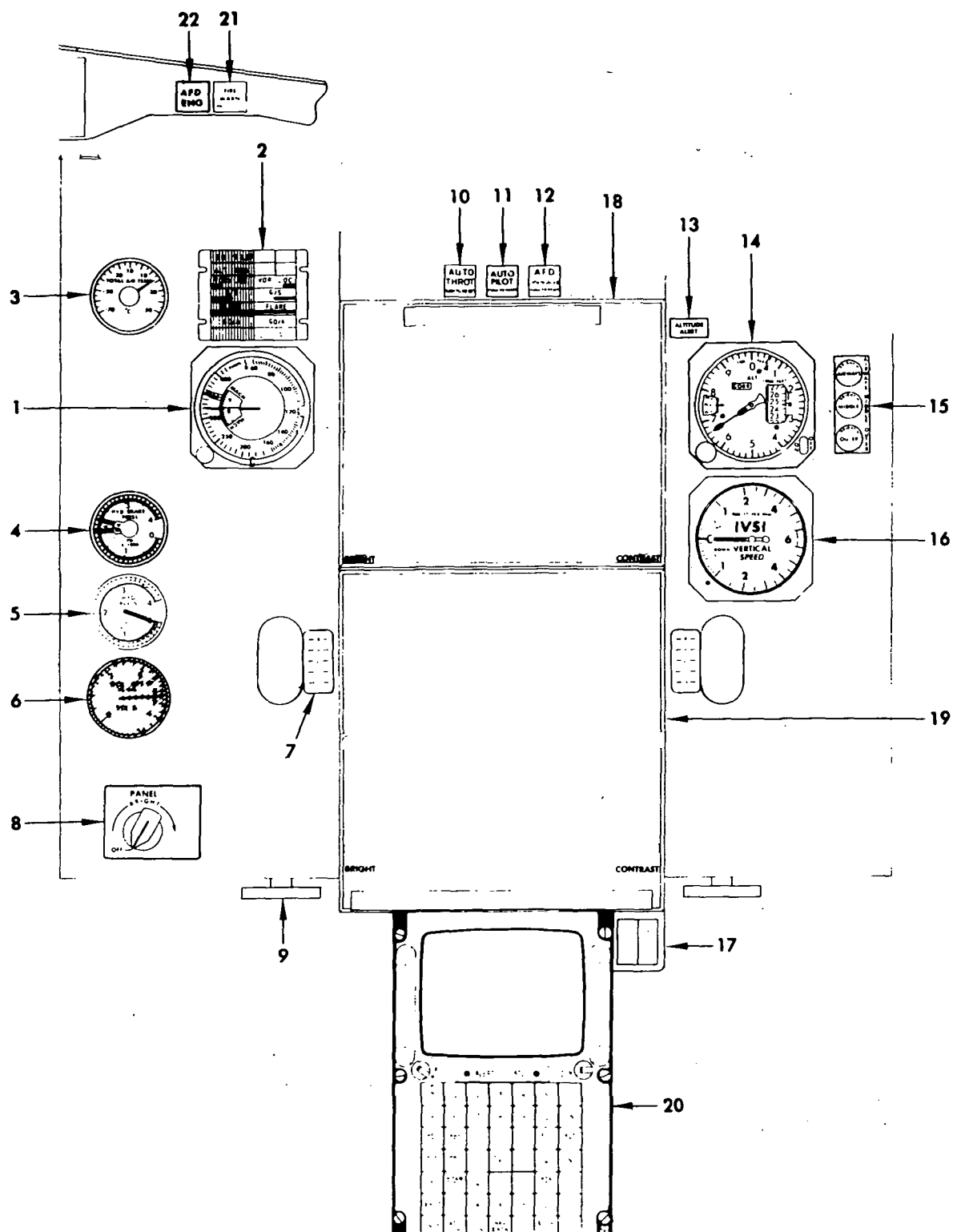
**AFT FLIGHT DECK (FORWARD VIEW)**



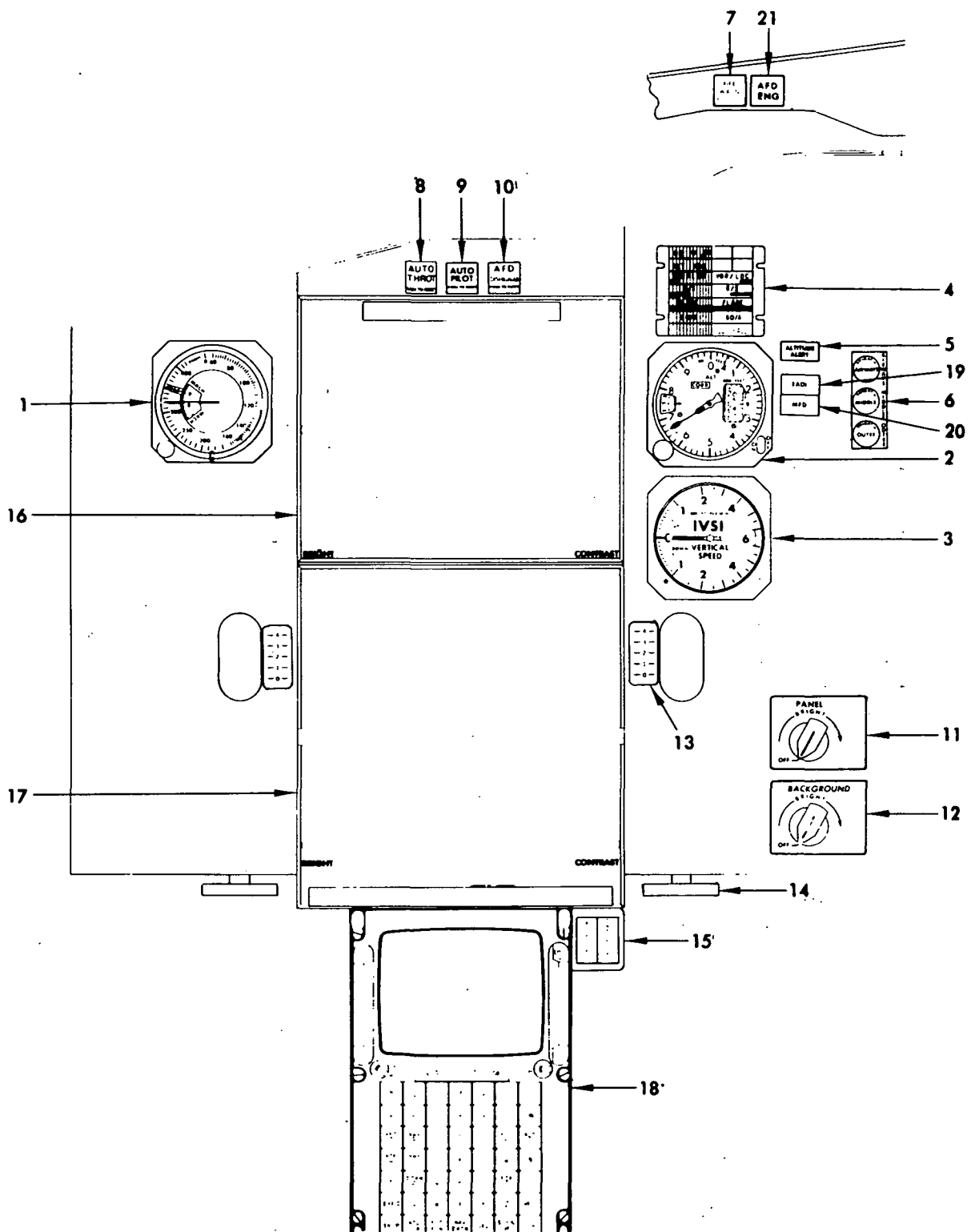
- |                             |                                     |
|-----------------------------|-------------------------------------|
| 1 FORWARD ELECTRONIC PANEL  | 9 RUDDER TRIM WHEEL                 |
| 2 REVERSE THRUST LEVERS     | 10 AILERON TRIM WHEEL               |
| 3 THROTTLES                 | 11 CONTROL STAND LIGHTING SWITCHES  |
| 4 GO AROUND SWITCHES        | 12 PARKING BRAKE LIGHT              |
| 5 FLAP LEVER                | 13 PARKING BRAKE LEVER (DUMMY ONLY) |
| 6 STABILIZER TRIM LIGHT     | 14 STABILIZER TRIM WHEEL            |
| 7 START LEVERS (DUMMY ONLY) | 15 SPEED BRAKE LEVER                |
| 8 AFT ELECTRONIC PANEL      |                                     |

**AFD CONTROL STAND AND FORWARD ELECTRONICS PANEL**

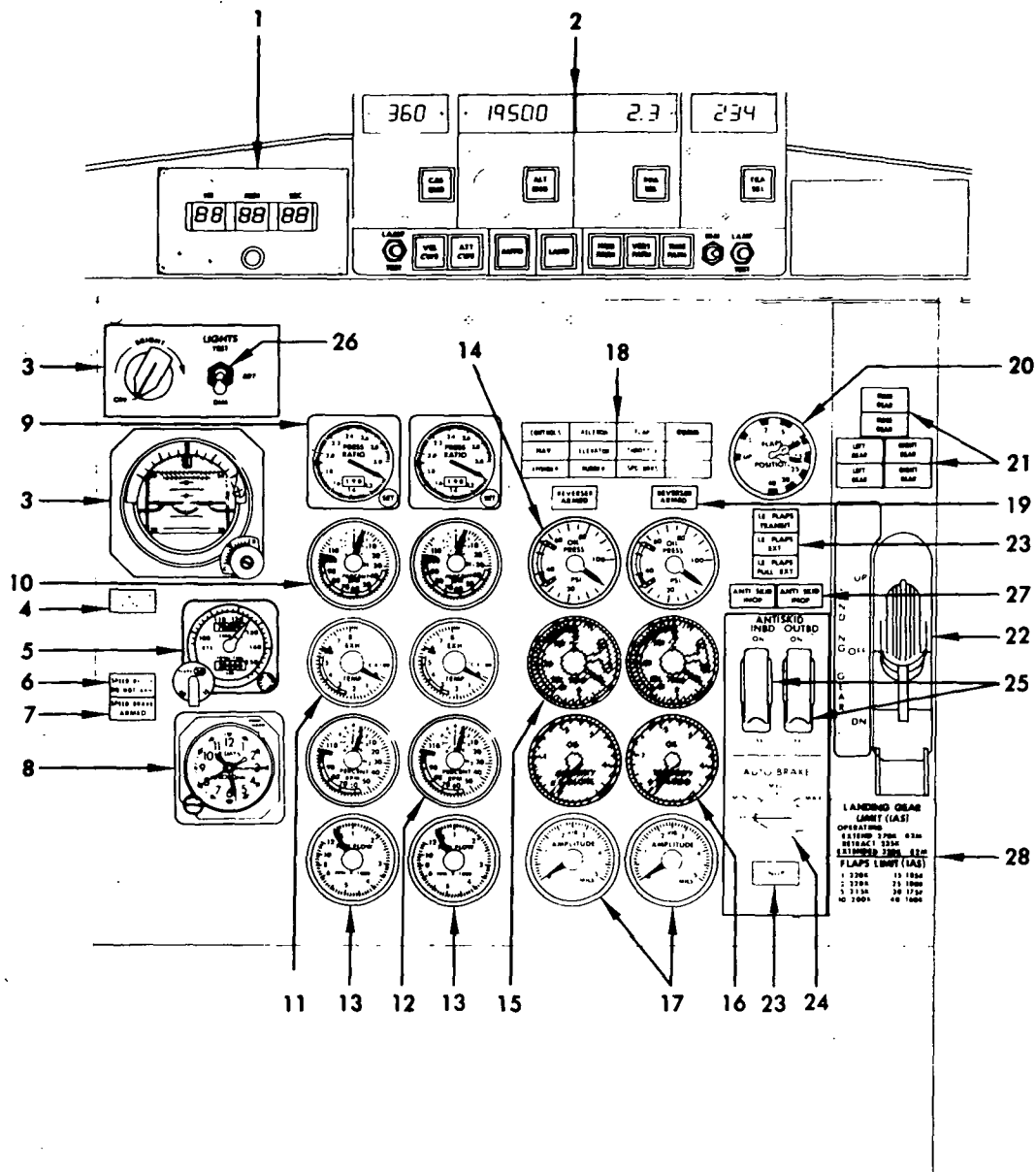




AFD COPILOT'S INSTRUMENT PANEL



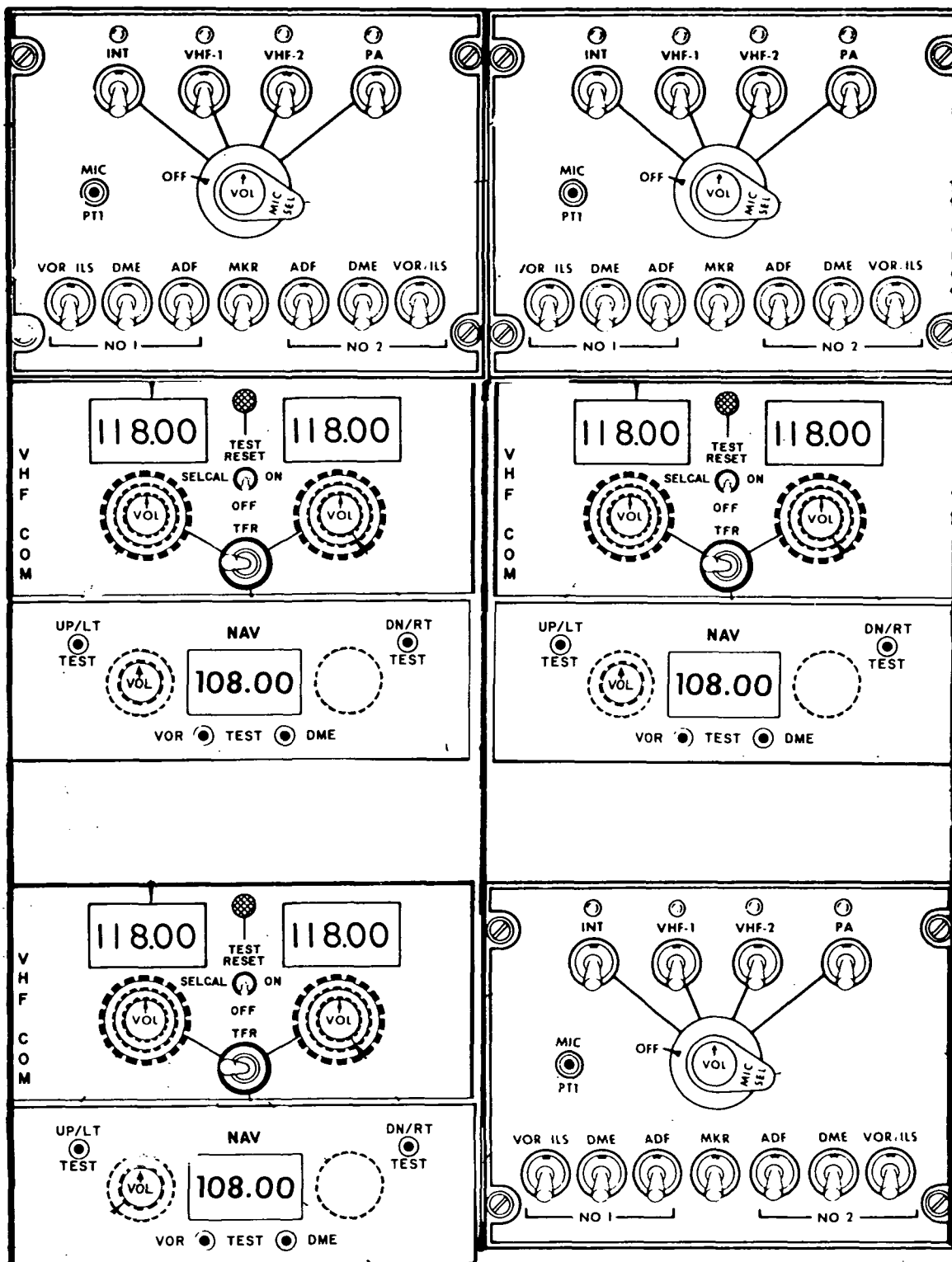
AFD PILOT'S INSTRUMENT PANEL



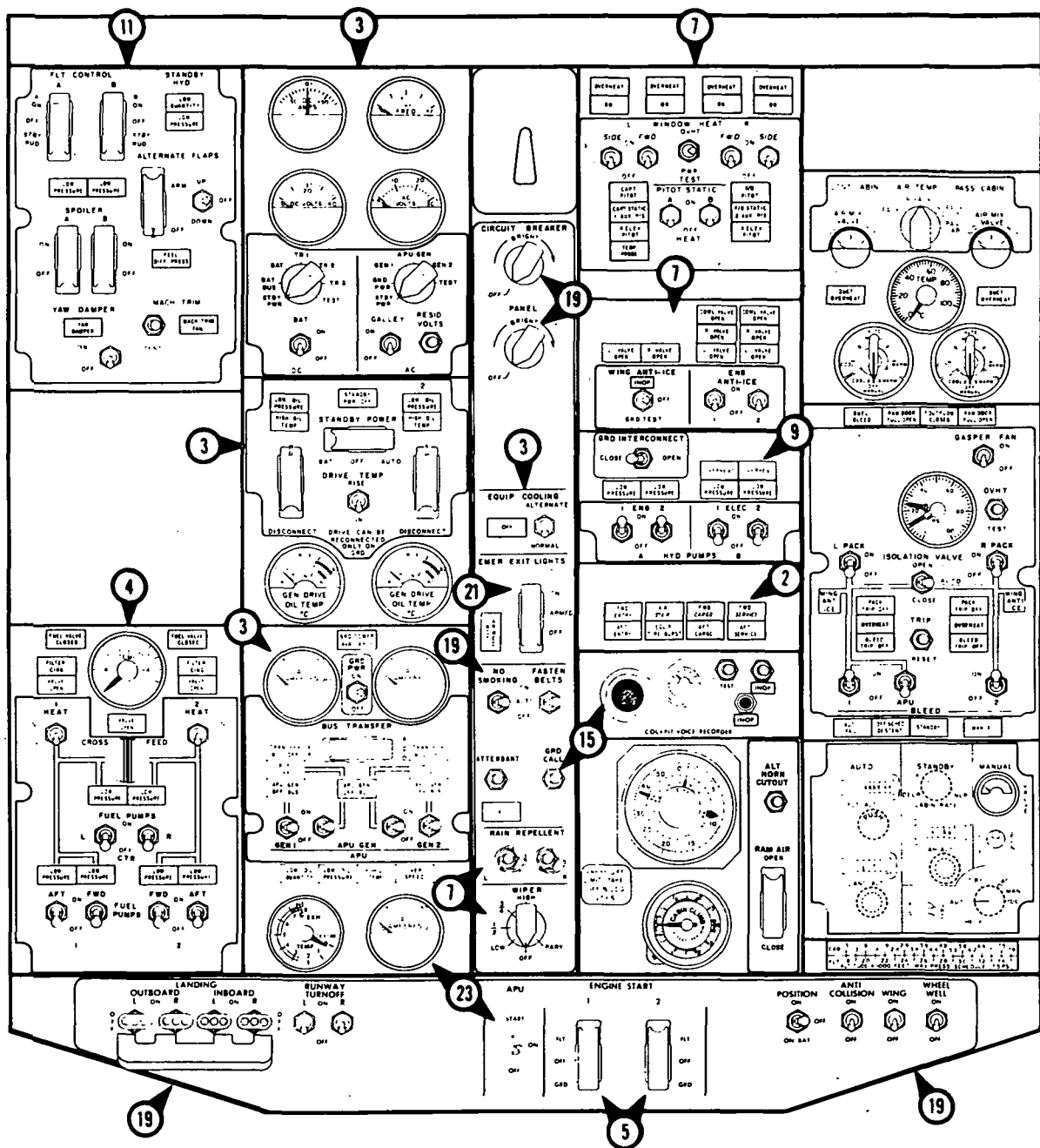
AFD CENTER INSTRUMENT PANEL AND LIGHTSHIELD

LEADING EDGE DEVICE ANNUNCIATION PANEL	ALTITUDE SELECT PANEL	ATC CONTROL PANEL
MFD CONTROL PANEL	EADI CONTROL PANEL	MFD CONTROL PANEL
FFD TAKEOVER		FFD TAKEOVER

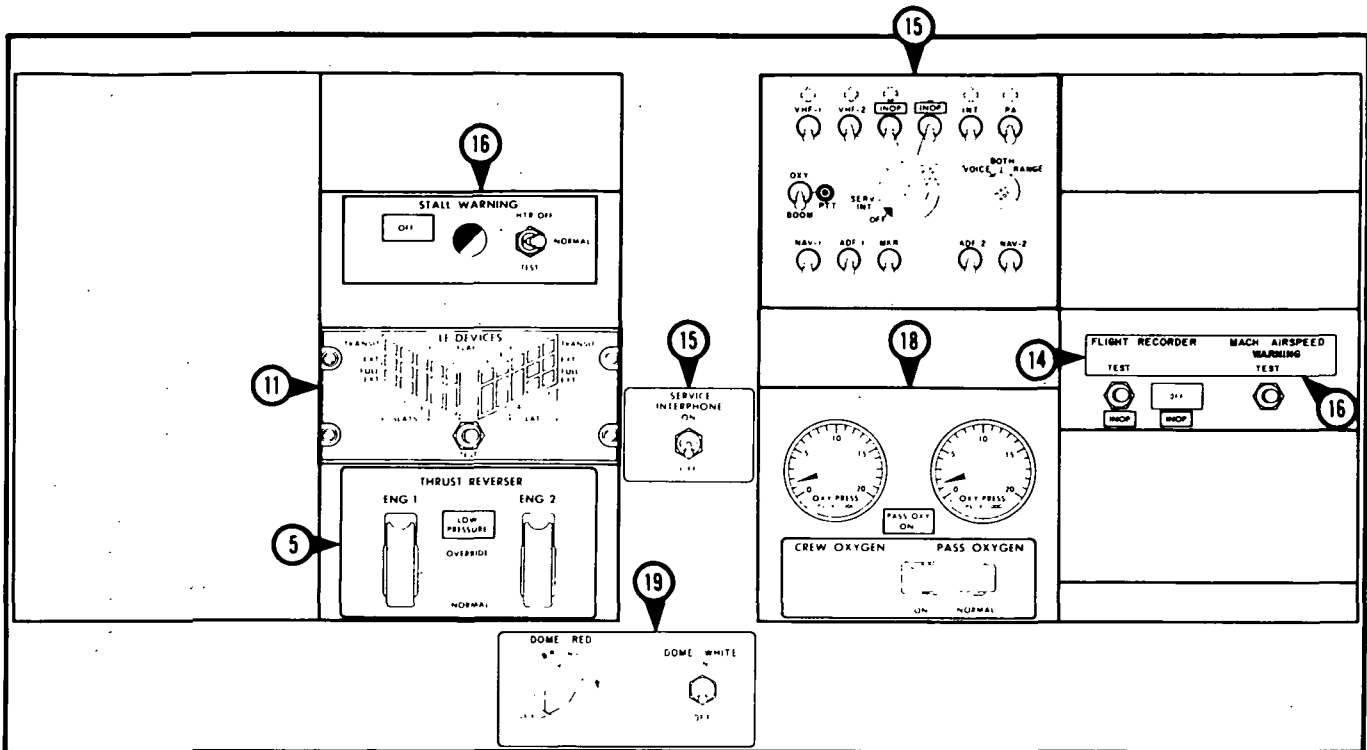
AFD FORWARD ELECTRONIC CONTROL PANEL



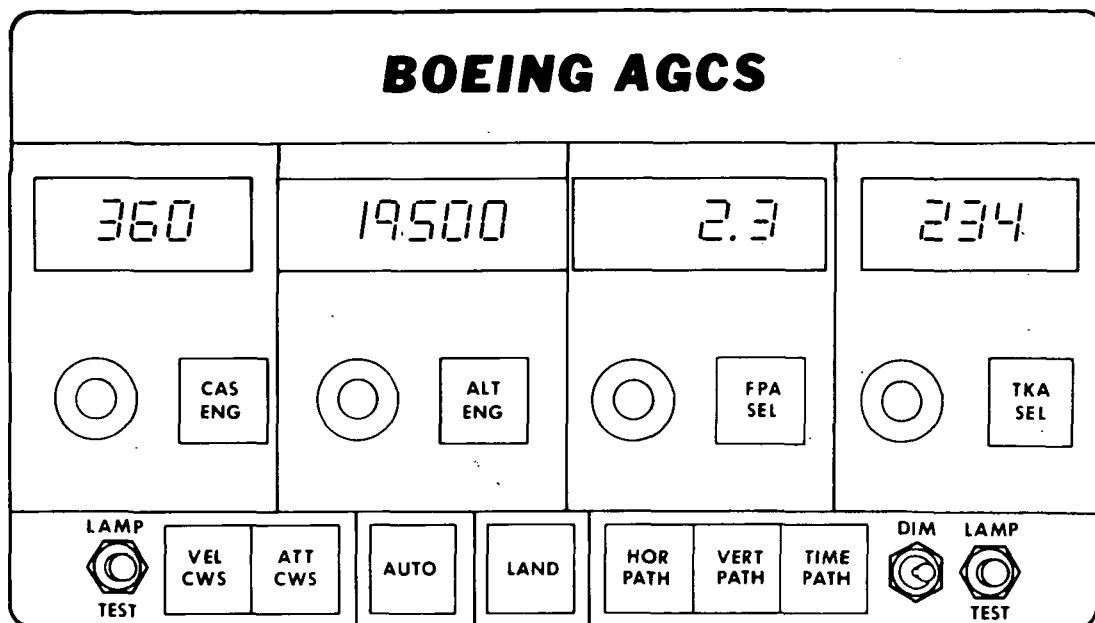
AFD AFT ELECTRONICS CONTROL PANEL



FORWARD OVERHEAD PANEL

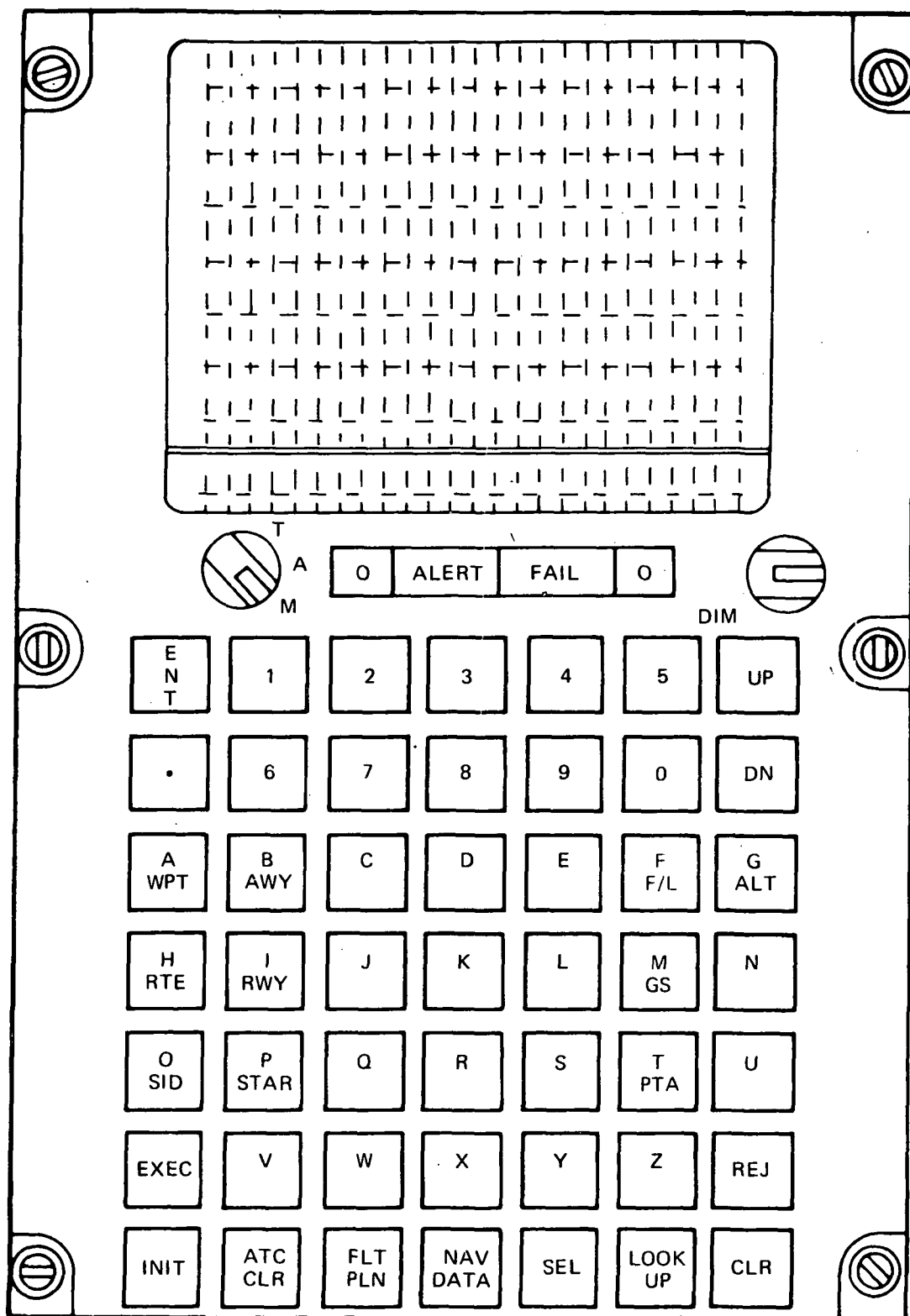


AFT OVERHEAD PANEL

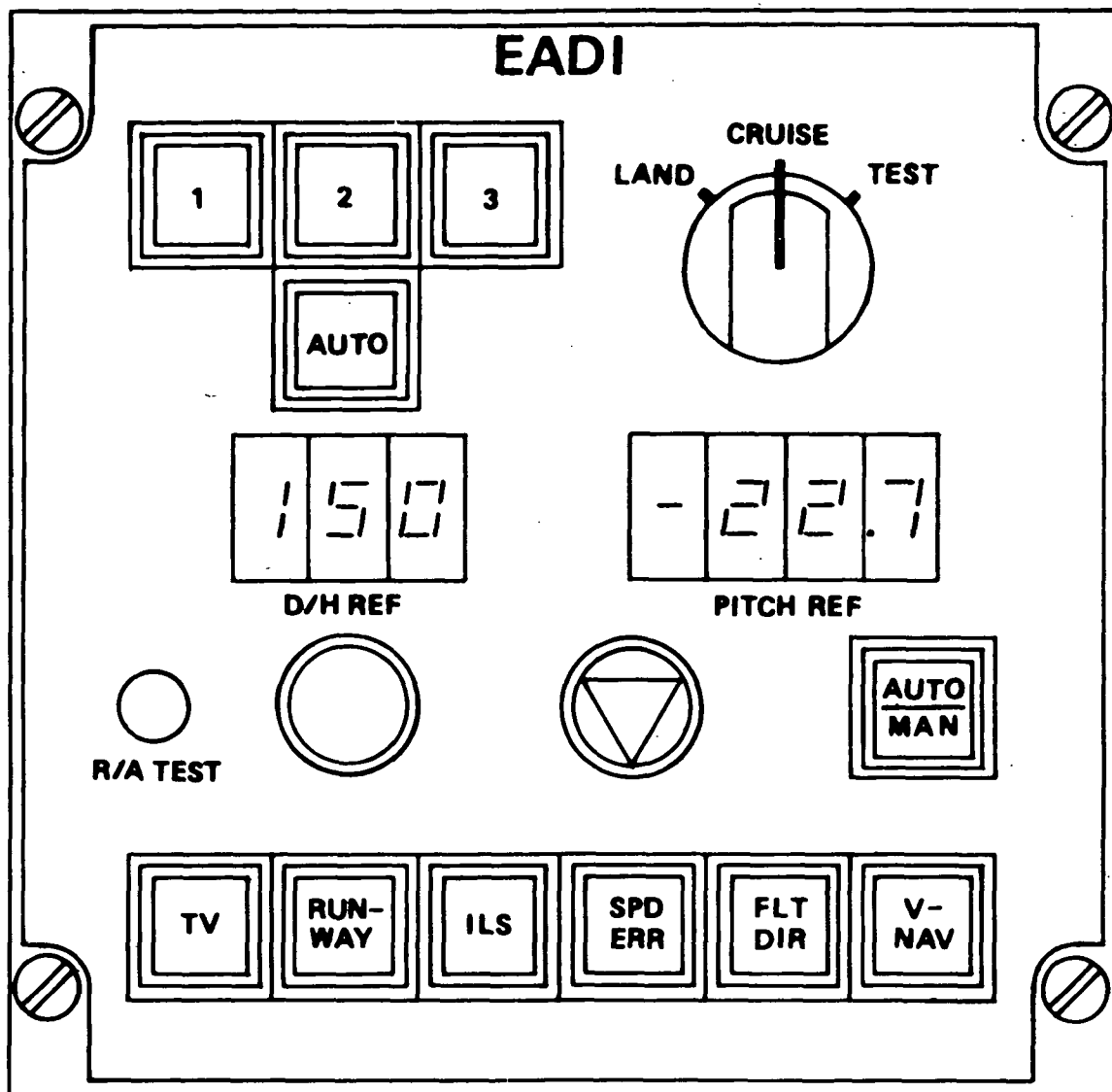


**AGCS MODE SELECT PANEL**



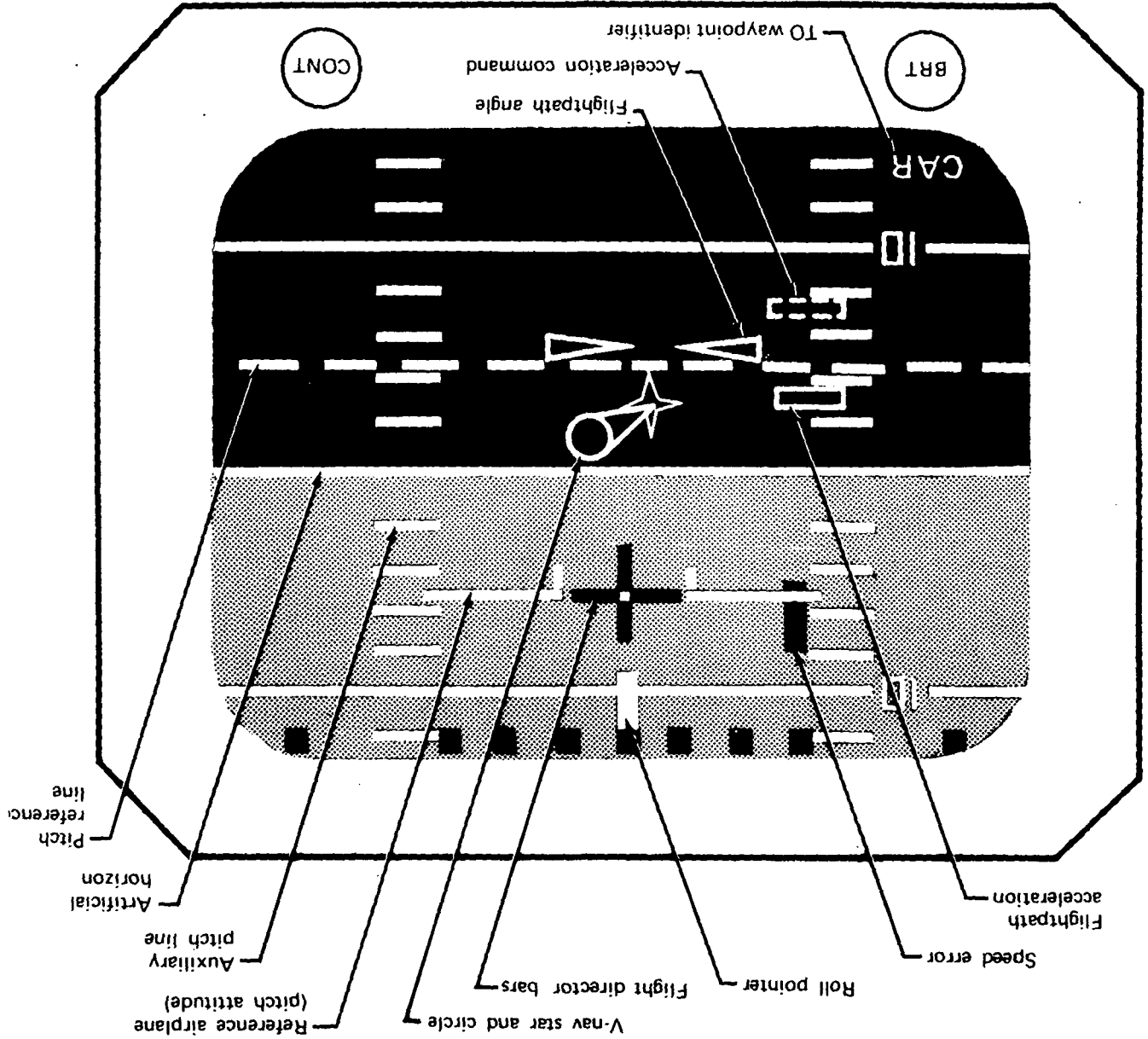


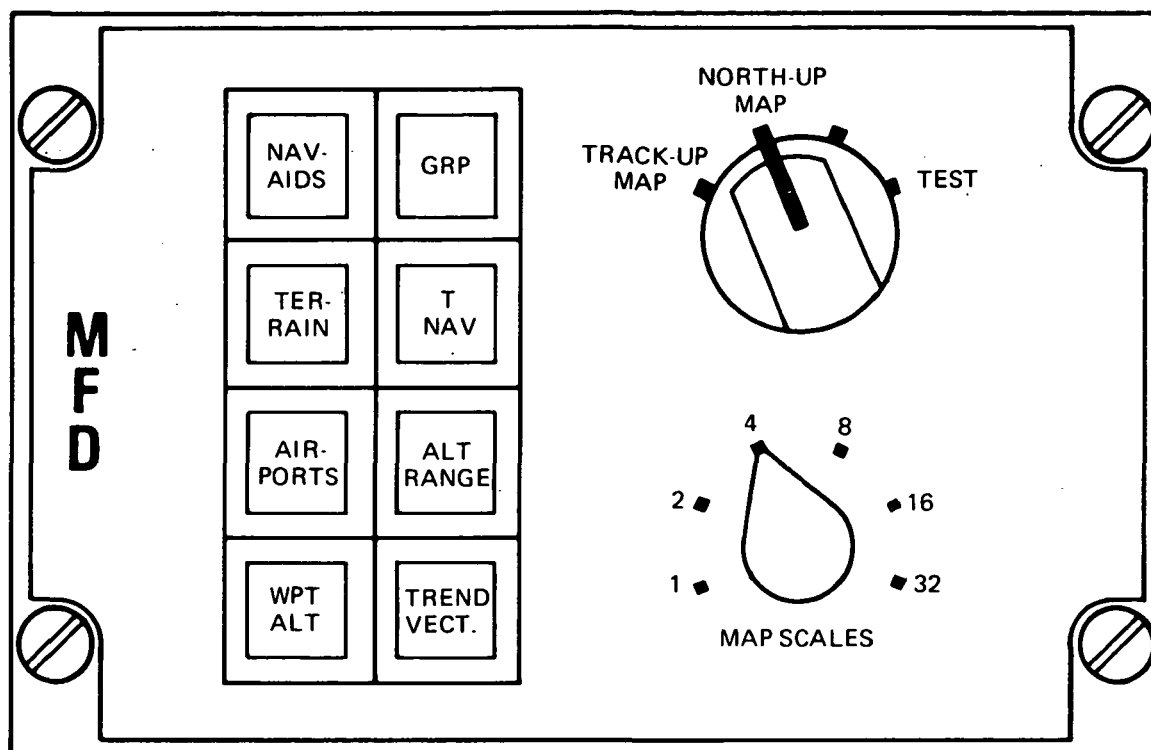
NCDU



*EADI MODE CONTROL UNIT*

ELECTRONIC ATTITUDE DIRECTOR INDICATOR (CRUISE MODE)





*MFD MODE CONTROL UNIT*

**APPENDIX EIGHT**  
**EVENT/PROCEDURE CATALOG**

EVENT/PROCEDURE									
010001 COCKPIT SAFETY INSPECTION	4C	22	0	F1 7B	84	3		P1	
	7B	57	4 1 1	P2 7B	53	6 1 1		P1	
	7B	52	8 1 1	P1 7A	29	12		P1	
	4D	47	14	P1 4D	05	15		P2	
	4D	09	15.3 1	P3 6A	17	18		P1	
	4E	16	22 1	P1 7P	48	26		P1	
	7P	49	26.9	P1 7P	09	28		P2	
	7P	05	28	P2 7P	08	28.54		P2	
	7P	50	29.08	P2 7P	10	30		P1	
	7P	45	30	P1 7P	15	30.54	1	P2	
	7P	21	31.08	P2 7P	22	31.62		P2	
	7P	52	32.16	P1 7P	40	32.66		P1	
	7P	11	35	P1 7P	12	36.63		P1	
	7L	19	40	P1 7L	13	50		P1	
	7B	24	55	P1 7B	34	56		P1	
	7B	44	57.98	P2 7B	25	58		P1	
	8D	01	1 5	P1 7H	19	1 15		P1	
	8D	02	1 23	P1 7H	20	1 30		P1	
	7B	85	1 35	P1 7B	86	1 40		P2	
	3F	03	1 45	P2 3F	02	145.69		P1	
	4A	41	1 50	P3 4A	43	1 51		P2	
	4A	38	151.32	P1 4A	61	152.32		P1	
	4A	40	153.33	P2 7H	06	1 0		P2	
	7H	21	203.50	P1 7K	11	2 7		P1	
	8D	03	2 10	P1					
010002 PILOT SEATED	8C	03	0	P1					
010003 CO-PILOT SEATED	8C	03	0	CP1 8C	02	3		CP1	
	4A	46	17	CP1 8E	03	20		CP1	
010004 BEFORE START PROC -1 (LIGHTS/SEATS/PEDAL)	8B010001	0	0	P1 8B	08	20		P1	
	7G	31	25	P2 7G	46	25		P1	
	8C	02	40	P1 8C	03	50		P1	
	4A	46	53	P1					
010005 BEFORE START PROC -2 (OXYGEN SYS)	7H	17	0	P1 7H	14	5		P1	
	7H	11	6.4	P1 7H	22	7.8		P1	
	7H	10	11.80	P1 7H	23	13.2		P1	
	7H	13	17.2	P1 7H	12	18.6		P1	
	7H	24	20.1	P1 7H	11	25		P1	
	7H	24	26.4	P1 7H	12	30.4		P1	
	7H	08	32	P1 7H	25	33.3		P1	
	7H	09	37.3	P1 1A	22	42		P2	
	1F	06	44.35	P3 7H	18	50		P1	
	8D	04	1 0	P1 8E	01	1 2		P1	
	8E	02	1 8	P1					
010006									
010007 BEFORE START PROC -3 (FLIGHT CONTROL SYS)	4A	48	0	P1 4A	49	2.79		P1	
	4A	50	4.81	P1 4A	51	6.85		P1	
	4A	52	8.89	P1 4A	53	10.91		P1	
010008 BEFORE START PROC -4 (FUEL SYS)	7C	67	0	P1 7C	68	1.14		P1	
	7C	49	1.97	P1 7C	57	2.52		P1	
	7C	69	3.07	P1 7C	13	3.88		P1	

	7C	24	4.43	P1 7C	26	5.88	P1
	7C	30	7.33	P1 7C	34	8.78	P1
	7C	38	10.23	P1 7C	42	11.66	P1
010009 BEFORE START PROC -5	7B	57	0	P2 7B	67	2.18	P2
(ELECTRICAL SYS)	7B	70	4.36	P1 7B	17	4.92	P2
	7B	88	6.88	P1 7B	89	8.21	P1
	7B	90	9.01	P1 7B	91	10.40	P1
010010 BEFORE START PROC -6	7G	07	0	P3 7G	09	2.73	P2
(LIGHTS)	7B	92	4.23	P1 7G	35	5.58	P1
	7G	38	7.48	P1 7G	02	8.02	P1
	7G	05	9.82	P1 7K	10	11.53	P1
010011 BEFORE START PROC -7	7K	07	0	P1 7K	11	4.22	P1
(ANTI-ICE / HEAT )	7J	24	5.36	P3 7J	26	6.78	P3
	7J	09	8.20	P4 7J	11	9.70	P4
	7J	05	11.20	P2 7J	07	11.73	P2
	7J	13	12.26	P1 7J	15	12.80	P1
	7J	17	13.34	P1 7J	19	13.34	P1
010012 BEFORE START PROC -8	7A	01	0	P4 7A	03	1.46	P2
(HYDRAULIC SYS)	7A	09	2.92	P1 7A	11	3.47	P1
	7A	05	4.02	P3 7A	07	5.46	P3
	7A	12	6.94	P1 7A	14	7.49	P1
	7A	19	8.04	P1 7A	20	10.28	P2
	7A	21	12.52	P1			
010013 BEFORE START PROC -9	7E	01	0	P1 7E	02	1.27	P2
(PRESSURIZATION/AIR-	7D	41	3.32	P2 7D	43	6.53	P1
CONDITIONING )	7D	50	9.22	P3 7D	54	11.34	P3
	7D	02	15	P2 7D	01	17.70	P1
	7D	05	20	P3 7D	19	21.52	P2
	7D	63	23.04	P1 7D	64	24.39	P1
	7D	65	25.70	P1 7D	66	28.47	P1
	7E	05	30	P1 7E	06	31.33	P1
	7E	07	33	P2 7E	08	33.93	P1
	7E	11	36	P2 7E	09	39	P2
	7E	10	40.62	P1 7E	16	43	P2
	7E	18	44.50	P2			
010014 BEFORE START PROC-10	7G	24	0	P2 7M	12	1.5	P2
(LIGHTS/ENG START/	7M	13	3.5	P2 3R	47	5	P1
FLIGHT DIREC)	3R	48	6.5	P2 3V	19	8	P1
010015 BEFORE START PROC-11	5K	01	0	P1 5K	02	3.5	P1
(COMPASS/ADF/RMI/CI)	5K	03	5	P2 1P01001	01	5	P1
	1P	06	5	CP1 1P	03	7.5	CP1
	0D	23	5	P1 5E	21	9	CP1
	0G	03	7.23	P1 5H	01	11.26	CP1
	3S	14	9.48	P1 3S	14	10.26	P2
	3S	14	13.53	CP1 3S	14	14.31	CP2
010016 BEFORE START PROC-12	1PC10002		0	CP1 1P	06	0	P1
(ALTIMETER)	1P	03	2.5	P1 3H	03	3	P2
	3H	04	3.28	P2 3H	03	3.5	CP3
	3H	04	3.78	CP2 3H	04	7	CP1
	3H	04	7.5	P1			
010017 BEFORE START PROC-13	3L	01	0	P3 3L	01	0	CP3
(VSI/MACH AIRSPEED)	1PC10003		3	CP1 1P	06	3	P2
	1P	03	9	P1 3A	02	13	P2
	3A	02	10	CP1 3A	05	13	P3
	3A	05	13	CP2 3A	04	10.2	P1
	3A	04	10.2	CP1 3A	07	13.2	P3
	3A	07	13.2	P3			
010018 BEFORE START PROC-14	3N	02	0	P3 3N	01	2.24	P1
(CLOCKS/STDBY HJR)	3N	02	0	CP3 3N	01	2.24	CP2

		3R	49	5	P1 3P	01	8	P1
		3P	04	10.7	P1			
010019	BEFORE START PROC-15	7C	72	0	P3 7C	09	.1	P1
	(FUEL QTY TEST)	7C	10	2.12	P1 7C	11	4.14	P1
010020	BEFORE START PROC-16	1P010004		0	P1 1P	02	0	CP1
	(EPR/DIL QTY/VIBR)	3B	04	1.5	CP1 1P010005		3.0	CP1
		1P	06	3.0	CP1 1P	03	0	P1
		7F	25	0.5	P1 7F	26	9.03	P3
		7F	27	9.33	P1 7F	30	11.33	P2
		7F	28	13.35	P3 7F	29	13.65	P1
		7F	04	17	P4 7F	11	17.2	P1
		7F	19	19.25	P1 7F	11	25	P1
		7F	03	24.91	P3 7F	12	26.35	P3
		7F	20	28.37	P3 7F	02	30.39	P1
		7F	03	32.30	P3 7F	12	33.74	P3
		7F	20	35.76	P3			
010021	BEFORE START PROC-17	4D	48	0	P1 4D	38	1.04	P1
	(ANTI-SKID/ANTI-BRK)	4D	49	1.56	P1 4D	40	2.66	P1
010022	BEFORE START PROC-18	6A	10	0	P2 1N	02	2.38	P2
	(CENTER STAND ITEMS)	4F	12	4.31	P1 4C	23	6.31	P1
		4B	04	7.51	P1 7M	14	10.05	P2
		4D	50	10.83	P1 4G	15	11.80	F1
010023								
010024								
010025								
010026								
010027								
010028								
010029								
010030	BEFORE START PROC-20	7H	17	0	CP1 7H	14	5	CP1
	(OXYGEN SYS)	7H	11	6.4	CP1 7H	22	7.8	CP1
		7H	10	11.8	CP1 7H	23	13.2	CP1
		7H	13	17.2	CP1 7H	12	16.6	CP1
		7H	24	20.1	CP1 7H	11	25	CP1
		7H	24	26.4	CP1 7H	12	30.4	CP1
		7H	08	32	CP1 7H	25	33.3	CP1
		7H	09	37.3	CP1 1B	23	42	CP2
		1F	15	44.35	CP1 7H	18	50	CP1
		8D	04	1	CP1 8C	21	2	CP1
		8E	02	1	CP1			
010031	DETERMINE CPR, VI,	8B010004		0	CP1 8B010006		3	CP1
	AND V-REF BUG SET	8B	01	33	CP2 8B010007		35	CP1
	VALUES	8B	01	1	CP2 8B010005	1	7	CP1
010032	TUNE COMM RADIOS	8B010002		0	CP1			
010033	SET VHF-1L TO	1A	01	0	CP3 1A	02	0	CP2
	CLEARANCE DELIVERY	1A	03	2.98	CP1 1A	05	5	CP2
	(121.05) AND REQUEST	1A	17	6.43	CP2 1A	19	1.95	CP4
	CLEARANCE	1A	24	10	CP1 1A	11	11.42	CP1
		1P010055		11.42	CP1 1A	14	18	CP1
		1P010056		16	CP1 1P010057		22.26	CP1
		1P010058		22.94	CP1 1P010059		33.62	CP1
		8B	01	24	CP1 1A	24	37	CP2
		1A	11	36.42	CP2 1P010060		38.42	CP1
		1P010061		42.08	CP1 1P010073		46.96	CP1
		1A	14	49.4	CP2 1P010062		49.4	CP1
		1P010063		52.9	CP1 3B	01	51	CP2
		1A	24	56	CP3 1A	11	57.42	CP1
		1P010064		57.42	CP1			
010034	SET VHF-2K TO ATIS	1B	07	0	CP3 1B	08	0	CP2



(111.1)	18	09	2.88	CP1	18	06	4.86	CP1
	18	11	6.31	CP2	18	04	8	CP1
	18	18	6.31	CP1	1P010065		6.31	CP1
	1P010066		10.39	CP1	1P010067		15.83	CP1
	1P010068		21.27	CP1	1P010069		26.71	CP1
	1P010074		32.15	CP1	88	01	11	CP1
	18	12	37	CP4				
010045 SET TRANSPONDER CODE	1N	06	0	CP3	1N	05	2.8	CP1
TU 2213	1N	08	5.6	CP1	1N	16	8.21	CP1
	1N	18	8.21	CP1				
010036 SET RADAR	6A	02	0	CP2	6A	14	2.86	CP1
	6A	01	5.03	CP1	6A	09	9.14	CP1
010037 SET VHF-1R TO GROUND	98010002		0	CP1	1A	07	5	CP3
CONTROL (121.9)	1A	08	5	CP2	1A	09	7.98	CP1
010038 SET VHF-2L TO								
ATLANTA TOWER(119.5)	18	01	0	CP2	18	02	0	CP2
	18	03	2.9	CP1				
010039 SET NAV-1 TO ATLANTA	98010002		0	CP1	5U	01	5	CP3
VOR (115.5)	5U	02	5	CP3	5U	03	8	CP2
	5U	11	11	CP2	5U	12	13	CP2
010040 SET NAV-2 TO SPAR-	5V	01	0	CP3	5V	02	0	CP2
TANBURG VOR (115.7)	5V	03	2.93	CP1	5V	11	5	CP1
	5V	12	7.5	CP2				
010041 SET ADF-1 TO LAKE-	98010002		0	CP1	5D	19	5	CP3
SIDE LUM	5D	02	8	CP3	5D	01	8	CP2
010042 BEFORE START PROC-19	7G	14	0	P1	4G	07	5	P1
(LITES/TRIM/PAPERS)	4G	01	10	P1	4G	02	12	P3
	98010003		20	P1				
010043								
010044								
010045								
010046								
010047								
010048								
010049								
010050 BEFORE START CHECK-	1P010006		0	P1	1P	02	0	CP2
LIST - 1	1P	03	2	CP1	88	02	3	CP3
	18	05	9	CP2	88	02	14	CP1
	1P010007		16	CP1	1P	02	16	P1
	1P010008		19	P1	1P	06	19	CP3
	38	03	22	CP1	1P010009		24	CP1
	1P	02	24	P4	1P010010		26	P1
	1P	06	26	P3	88	03	27	CP1
	1P010011		29	CP1	1P	02	29	P4
	1P010012		30	P1	1P	06	30	CP3
010051 BEFORE START CHECK-	88	03	0	CP1	1P010013		2	CP1
LIST - 2	1P	10	2	P1	4A	04	3	P1
	1P010014		4.21	P1	1P	06	4.21	CP4
	38	03	5	CP1	1P010015		7	CP1
	1P	06	7	P4	7C	09	7.5	P2
	7C	10	9.77	P1	7C	11	12.79	P1
	7C	7C	13.69	P1	1P010016		15.48	P1
	1P	07	15.46	CP1	38	03	20	CP1
	1P010017		22	CP1	1P	10	22	P2
	78	93	22.7	P1	1P010018		24.5	P1
	1P	06	24.5	CP4	88	03	25	CP1
	1P010019		27	CP1	1P	10	27	P3
	7C	04	28.2	P1	1P010019		29	P1
	1P	10	29	CP4	88	03	30	CP1

	1P010020	32	CP1 1P 02	32	P2
	7G 48	34	P1 1P010021	35.27	P1
010052 BEFORE START CHECK-	1P 06	35.27	CP4		
LIST - 3	8B 03	0	CP1 1P010022	2	CP1
	1P 10	2	P1 7A 32	3	P1
	1P010026	5	P1 1P 07	5	CP2
	8B 03	6	CP1 1P010023	8	CP1
	1P 02	8	P2 7D 67	10	P1
	7D 63	11.35	P1 7D 64	12.7	P1
	7D 05	14.01	P1 7D 65	14.76	P1
	1P010024	15.55	P1 1P 07	15.55	CP3
	8B 03	18	CP1 1P010025	20	CP1
	1P 11	20	P1 4H 74	20.5	P1
	1P010027	22	P1 1P 07	22	CP4
	8B 03	23	CP1 1P010028	25	CP1
	1P 11	25	P2 1P010029	26	P1
	1P 06	26	CP3 8B 03	27	CP1
	1P010030	29	CP1 1P 11	29	P3
	4D 38	30	P1 1P010031	31	P1
	1P 06	31	CP4 8B 03	32	CP1
	1P010031	34	CP1 1P 11	34	P3
	4D 49	35	P1 1P010032	30.5	P1
010053 BEFORE START CHECK-	1P 06	36.5	CP4		
LIST - 4	8B 03	0	CP1 1P010033	2	CP1
	1P 02	2	P2 1P010034	4	CP1
	1P 10	4	P3 8B 03	5.5	CP1
	1P010035	7.5	CP1 1P 11	7.5	P2
	4F 12	9	P1 1P010036	11	P1
	1P 06	11	CP3 8B 03	12	CP1
	1P010037	14	CP1 1P 10	14	P2
	4D 27	14.7	P1 1P010038	16	P1
	1P 06	18	CP4 8B 03	18.5	CP1
	1P010039	19.5	CP1 1P 11	19.5	P4
	4G 08	21.2	P2 4G 10	22.45	P2
	1P010040	24	P1 1P 07	24	CP2
	8B 03	25	CP1 1P010041	27	CP1
	1P 02	27	P2 7P 14	29	P1
010054 BEFORE START CHECK-	1P010040	30.5	P1 1P 06	30.5	CP3
LIST - 5	8B 03	0	CP1 1P010041	2	CP1
	1P 02	2	P1 1P010042	3.5	P1
	1P 07	3.5	CP2 8B 03	4.5	CP1
	1P010043	7	CP1 1P 11	7	P2
	1P010044	8	CP1 1P 07	8	P2
	8B 03	9	CP1 1P010045	11	CP1
	1P 02	11	P1 1P010038	13.5	CP1
	1P 06	13.5	P4		
010055 BEFORE START CHECK-	1P010052	0	P1 1P 11	0	CP4
LIST - 6	8B 03	2	CP1 1P010046	4	CP1
	1P 02	4	P4 7D 06	5.3	P3
	7D 20	7.95	P2 1P010047	10	P1
	1P 08	10	CP1 8B 03	11	CP1
	1P010048	13	CP1 1P 11	13	P3
	7D 01	14	P1 1P010049	16.5	P1
	1P 08	16.5	CP2 8B 03	18.2	CP1
	1P010050	20.2	CP1 1P 10	20.2	P3
	7G 25	22	P1 1P010014	24.5	P1
	1P 06	24.5	CP4 8B 03	25	CP1
	1P010051	27	CP1 1P 11	27	P4
	8B 03	29	CP1		

010056 CONTACT GRJUND CON-	1A	06	0	P3 1A	25	2.3	P1
TROL FOR PUSHBACK	1A	11	2.3	P4 1P010070		2.3	P1
CLEARANCE	1P010071		6.3	P1 1A	14	11	*2
	1P010072		11	*1 1P010075		15.5	*1
	1A	25	18	P2 1A	11	18	P3
	1P010064		18	P1			
010057 PUSHBACK PROCEDURE-1	1F	07	0	P1 1F	06	2.44	P3
	1H	01	4.43	P1 1A	20	10	P2
	1F	11	10	P1 1P010053		10	P1
	1F	09	12	P1 1P010054		12	P1
	7A	02	13	P4 7A	04	15.75	P3
	40	52	17.5	P1 8A	03	01010	P4
010058 AIRCRAFT PUSHED BACK							
FROM GATE							
010059 AIRCRAFT STOPPED ON							
RAMP							
010060 PUSHBACK PROCEDURE-2	40	28	0	P1			
010061 TOWBAR DISCONNECTED							
AND TUG DRIVEN AWAY							
010062 PUSHBACK PROCEDURE-3	1P030001		0	*1 1F	09	0	P2
020001 BEFORE START PROC-1A	4A	70	0	P1			
(LITES/SEATS/PEDALS)							
020002 BEFORE START PROC -	7G	24	0	P2 7m	12	1.5	P2
10A (LITES/ENG STR)	7M	13	3.5	P2			
020003 BEFORE START PROC -	2J	23	0	P1 2J	24	2.27	P1
10B (EADI)	2J	26	4.54	P2 2J	32	5.87	P2
020004 BEFORE START PROC -	2K	03	0	P1 2K	04	2.64	P1
10C (MFD - CAPT.)	2K	02	5.64	P2 2K	07	7.61	P2
	2K	18	9.53	P1 2K	14	11.0	P3
	2K	25	12.98	P1			
020005 BEFORE START PROC -	2H	52	0	P1 2H	53	0	P1
10D (AGCS)	2H	54	2	P1 2H	53	2	P1
	2H	02	4	P1 2m	09	5.05	P1
020006 BEFORE START PROC -	3B020001		0	P1 3B020002		3	P1
15A (FUEL QTY/V-REF)	7C	02	6	P1 7C	03	0	P1
	7C	07	10	P1 7C	01	11.0	P1
	3B020003		14.1	P1			
020007 BEFORE START PROC -	2J	36	0	P1 2J	37	2	P1
18A (CKTS)	2K	54	4	P1 2K	55	6	P1
	2L	02	8	P1			
020008 CO-PILOT SEATED	3C	03	0	CP1 3C	02	3	CP1
	4A	46	13	CP1 4A	70	16	CP1
	3E	03	19	CP1			
020009 SET VHF-1L TO	1Q	01	0	CP4 1Q	02	0	CP2
CLEARANCE DELIVERY	1Q	03	3	CP2 1Q	05	4.97	CP2
(121.05)	1Q	12	6.42	CP2 1Q	11	8.76	CP2
	1Q	14	11.56	CP3 1Q	15	11.56	CP1
	1P010055		11.56	CP1 1Q	16	15	CP1
	1P020001		18	CP1 1P020002		22	CP1
	1P020003		26	CP1 1Q	14	30	CP4
	1Q	15	30	CP2 1P020004		30	CP1
	1P020005		34	CP1 1P020006		38	CP1
	1Q	16	43	CP2 1P010002		43	CP1
	1P010063		46.5	CP1 1Q	23	50	CP1
	1Q	15	50	CP3 1P010064		50	CP1
020010 SET VHF-2R TO ATIS	1R	07	0	CP3 1R	08	0	CP4
(111.1)	1R	09	2.9	CP2 1R	12	4.48	CP2
	1R	06	5.91	CP2 1R	04	7.38	CP3
	1R	35	30	CP3 1P010065		8.96	CP1

		1P010066	13.04	CP1	1P010067	18.48	CP1
		1P010068	23.92	CP1	1P010069	29.36	CP1
		1P010074	34.80	CP1	08 01	11	CP1
		1R 13	39	CP2			
020011	SET VHF-1R TO GROUND	83010002	0	CP1	1Q 07	5	CP3
	CONTROL (121.9)	1Q 08	5	CP4	1Q 09	7.9	CP2
020012	SET VHF-2L TO	1Q 01	0	CP4	1Q 02	0	CP2
	ATLANTA TOWER(114.5)	1Q 03	3	CP2			
020013	SET NAV-1 TO ATLANTA	88010002	0	CP1	5W 01	5	CP3
	VOR (115.6)	5W 02	0	CP2	5W 03	7.37	CP2
		5W 05	9	CP2			
020014	SET NAV-2 TO ATLANTA	5X 01	0	CP3	5X 02	0	CP2
	VOR (115.0)	5X 03	2.90	CP2	5X 05	4.6	CP2
020015	SET NAV-3 TO AUGUSTA	88010002	0	CP1	5Y 01	5	CP3
	VOR (113.9)	5Y 02	5	CP2	5Y 03	6.12	CP2
		5Y 05	9.8	CP1			
020016	SET CRT#S	2J 36	0	CP1	2J 37	2	CP1
		2K 34	4	CP1	2K 35	6	CP1
		2L 02	8	CP1			
020017	NCDU TEST	2L 01	0	CP1	2L 09	2.07	CP1
		2L 01	7.67	CP1			
020018	SYSTEM STATUS CHECK	2L 08	0	CP3	2L 16	1.46	CP3
020019	PRE-FLIGHT FLIGHT						
	PLAN INITIALIZATION						
	PROCEDURE						
020020	MFD SET-UP	2K 02	0	CP4	2K 18	2.07	CP4
		2K 19	4.05	CP1	2K 21	5.43	CP3
		2K 22	6.81	CP2	2K 07	8.14	CP3
020021	INITIALIZE PAGE -	2L 03	0	CP1	2L 19	1.48	CP1
	TIME OF DAY INPUT	3K 02	3.82	CP3	2L 28	5.06	CP1
		2L 20	15.51	1 CP2			
020022	TIME OF DAY-08:15:45	2L 35	7.41	CP1	2L 33	3.76	CP2
		2L 26	10.11	CP3	2L 30	11.46	CP1
		2L 29	12.81	CP1	2L 30	14.16	CP1
020023	INITIALIZE PAGE -	2L 19	0	CP1	2L 20	2.34	CP1
	ORIGIN INPUT	2L 07	9.41	1 CP2	2L 20	11.46	1 CP1
020024	ORIGIN NAME - IATL	2L 45	3.79	CP2	2L 37	5.14	CP2
		2L 06	0.6	CP2	2L 48	8.00	CP1
020025	INITIALIZE PAGE -	2L 19	0	CP2	2L 27	2.08	CP2
	DESTINATION INPUT	2L 07	9.13	1 CP2	2L 20	11.20	1 CP3
020026	DESTINATION NAME-	2L 40	3.06	CP2	2L 39	4.08	CP1
	DCAI	2L 37	6.23	CP1	2L 45	7.68	CP1
020027	INITIALIZE PAGE-	2L 19	0	CP2	3K 04	2.08	CP2
	BAROMETER VALUE	2L 29	4.45	CP2	2L 07	12.06	1 CP2
	INPUT	2L 20	14.74	1 CP3			
020028	BAROMETER VALUE -	2L 27	5.91	CP1	2L 34	7.20	CP1
	29.86	2L 36	8.61	CP1	2L 33	9.90	CP2
		2L 31	11.31	CP1			
020029	REVIEW NEW DATA ON	2L 07	0	CP3			
	INITIALIZE PAGE FOR						
	ACCURACY						
020030	SELECT ATC CLEARANCE	2L 04	0	CP1	2L 08	2.03	CP2
	PAGE						
020031	ATC CLEARANCE PAGE-	2L 51	0	CP2	2L 06	8.35	1 CP1
	SID INPUT	2K 14	10.59	1 CP1	2L 20	12.96	1 CP3
020032	SID NAME - 3009L	2L 55	1.46	CP1	2L 51	2.81	CP1
		2L 59	4.16	CP1	2L 34	5.54	CP1
		2L 43	6.09	CP2			
020033	DETERMINE NAME OF	2K 14	0	2 CP1			

EXIT WAYPOINT ON  
SID SOC9L

020034	ATC CLEARANCE PAGE-	2L	37	0	CP2 2L	08	6.03	1	ICP1
	WAYPOINT INPUT	2L	25	9.17	1	ICP3			
020035	WAYPOINT NAME - SID3	2L	55	1.46	CP1 2L	45	2.81		CP2
		2L	40	4.16	CP2 2L	28	5.46		CP1
020036	ATC CLEARANCE PAGE-	2L	38	0	CP2 2L	08	5.97	1	ICP1
	AIRWAY INPUT	2K	17	9.31	1	ICP1 2L	20	11.58	1
020037	AIRWAY NAME - 816R	2L	33	1.48	CP1 2L	26	2.92		CP3
		2L	31	4.27	CP1 2L	24	5.62		CP1
020038	DETERMINE NAME OF ENTRANCE WPT ON STAR JASON01	2K	17	0	CP1				
020039	ATC CLEARANCE PAGE -	2L	52	0	CP2 2L	08	7.08	1	ICP1
	STAR INPUT	2K	17	9.42	1	ICP1			
020040	STAR NAME - W000	2L	59	1.46	CP2 2L	21	2.92		CP1
		2L	51	4.27	CP1 2L	40	5.02		CP3
020041	CHANGE MFD MAP SCALE TO 32 NM	2K	10	0	CP4				
020042	SELECT FLIGHT PLAN PAGE 2	2L	65	0	CP1 2L	39	2.03		CP2
		2L	65	4.11	CP3 2L	10	5.46		CP2
020043	REVIEW PROVISIONAL FLIGHT PLAN DATA	2L	64	0	CP2 2K	17	2.08		CP1
		2L	24	4.35	CP2				
020044	ACCEPT PROVISIONAL FLIGHT PLAN	2L	21	0	CP4 2L	09	1.52		CP2
		2K	17	3.6	CP1 1P020007		5.37		CP1
		1P	17	5.87	P4				
020045	BEFORE START CHECK- LIST - 5A	8B	03	0	CP1 1P020008		2		CP1
		1P	10	2	P1 1P020009		3		CP1
		1P	06	3	P3 8B	03	4		CP1
		1P020010		6	CP1 1P	10	5		P4
		1P020009		6.6	CP1 1P	06	6.6		P3
		8B	03	7	CP1 1P020011		9		CP1
		1P	10	9	P1				
		1P020009		10	CP1 1P	06	10		P3
		3B	03	11	CP1 1P020012		13		CP1
		1P	10	13	P1 1P020013		14		P1
		1P	08	14	CP3				
020046	CONTACT GROUND CON- TROL FOR PUSHBACK CLEARANCE	10	06	0	CP2 10	24	1.45		CP1
		10	15	1.45	CP4 1P010070		1.45		CP1
		1P010071		5.45	CP1 10	16	9		*3
		1P010072		9	*1 1P010075		13.50		*1
		10	24	15	CP2 10	15	15		CP3
		1P010084		15	CP1				
020047	WAYPOINT NAME - AGE1	2L	37	1.46	CP1 2L	43	2.81		CP2
		2L	41	4.27	CP1 2L	26	5.62		CP3
030001	ENGINE NO.2 START-UP	1A	25	0	P3 1P030002		2.35		P1
		1F	11	2.35	P2 1F	09	5		P2
		1P030001		5	P1 7M	05	7		P3
		7F	24	10.24	P3 7F	22	20.24		P2
		7M	09	23.06	P1 7F	17	25.57		P2
		7F	32	27.29	P1 7F	34	29.61		P1
		7M	15	31.53	P1 7F	24	34.23		P2
		7F	32	36.67	P1 7F	34	38.69		P1
		7F	30	40.71	P1 7F	22	42.73		P1
		7F	17	44.75	P1 1F	11	2.35		CP2
		7F	24	12	CP2 7F	22	16		CP1
		7F	17	25	CP1 7F	32	28		CP1
		7F	34	31	CP1 7F	24	35		CP1
		7F	32	37.02	CP1 7F	34	39.04		CP1

	7F	30	41.06	CP1	7F	22	43.08	CP1
	7F	17	45.10	CP1	7F	24	47.12	CP1
	7F	32	49.14	CP1	7F	34	51.16	CP1
030002 ENGINE NO.1 START-UP	1A	25	0	P3	1F	11	1.45	P2
	1P030003		1.45	P1	1F	09	5	P2
	1P030001		5	P1	7M	02	7	P3
	7F	23	10.54	P3	7F	21	20.54	P2
	7M	07	23.06	P1	7F	09	25.57	P1
	7F	31	27.62	P1	7F	33	29.64	P1
	7M	16	31.66	P1	7F	23	32.96	P2
	7F	31	34.95	P1	7F	33	37	P1
	7F	25	39.02	P1	7F	21	41.04	P1
	7F	09	43.06	P1	7F	23	11	CP3
	7F	21	21	CP2	7F	09	23.52	CP1
	7F	31	25.57	CP1	7F	33	27.39	CP1
	7F	23	29.61	CP1	7F	32	31.63	CP1
	7F	31	33.65	CP1	7F	25	35.67	CP1
030003 AFTER START PROC.	7F	21	37.69	CP1	7F	09	39.71	CP1
	7B	32	0	P1	7B	42	1.72	P1
	7B	31	3.44	P1	7B	41	4.03	P1
	7J	24	4.67	P1	7J	26	7.37	P2
	7J	28	8.79	P1	7J	30	9.92	P1
	7J	32	11.05	P1	7J	34	12.16	P1
	7J	36	13.32	P1	7J	38	14.40	P1
	7Q	10	15.6	P1	7Q	13	17.15	P2
	7Q	16	18.27	P1	7Q	19	19.39	P1
	7Q	22	20.59	P1	7Q	25	21.03	P1
	7Q	28	22.75	P1	7Q	31	23.87	P1
	7D	05	24.99	P4	7D	19	27.68	P2
	7D	18	29.2	P2	7D	34	30.73	P1
	7L	11	31.01	P3	7E	15	33.56	P3
	7M	03	36.64	P4	7M	06	38.38	P4
	7M	08	40.12	P1	7M	10	43.12	P2
030004 AFTER START CHECK- LIST - 1	1P030004		0	P1	1P	02	0	CP1
	8B	02	1.5	CP3	3B	03	7.4	CP1
	1P030005		9.4	CP1	1P	11	9.4	P2
	7B	31	13.2	P2	7B	41	11.12	P1
	1P030006		12	P1	1P	08	12	CP3
	8B	03	13.5	CP1	1P030007		15.5	CP1
	1P	11	15.5	P3	7J	45	16.4	P1
	7J	46	17.87	P1	1P030014		19	P1
	1P	06	19	CP4	8B	03	19.5	CP1
	1P030008		21.50	P1	1P	11	21.5	P3
	1P030009		22.40	P1	1P	06	22.4	CP3
030005 AFTER START CHECK- LIST - 2	8B	03	0	CP1	1P030010		2	CP1
	1P	10	2	P3	7D	10	3.6	P1
	7D	22	4.6	P1	7C	35	5.6	P1
	1P030011		6.3	P1	1P	09	6.3	CP1
	8B	03	2.0	CP1	1P030012		9.6	CP1
	1P	11	9.6	P3	7M	11	10.5	P1
	1P030013		11.1	P1	1F	08	11.1	CP4
030006 AFTER START CHECK- LIST - 3	8B	03	0	CP1	1P030014		2	CP1
	1P	11	2	P2	7L	20	3	P1
	1P030015		3.75	P1	1P	06	3.75	CP4
	8B	03	4.25	CP1	1P030016		6.25	CP1
	1P	10	6.25	P1	7M	14	2.25	P1
	1P030017		8.55	P1	1F	06	8.55	CP4
	8B	03	9.05	CP1	1P030018		11.05	CP1
	1P	12	11.05	P2	8B	06	12.45	CP1

030007 ENGINE INSTRUMENT	7F	25	0	CP4 7F	30	0	CP3
SCAN	7F	21	.44	CP3 7F	22	.44	CP3
	7F	31	.88	CP2 7F	32	.88	CP2
	7F	23	1.32	CP4 7F	24	1.32	CP4
	7F	33	1.76	CP2 7F	34	1.76	CP2
	7F	09	2.2	CP3 7F	33	2.2	CP3
	7F	10	2.64	CP4 7F	18	2.64	CP4
	7F	11	3.08	CP3 7F	19	3.08	CP4
	7F	12	3.52	CP4 7F	20	3.52	CP4
040001 TAXI PROCEDURE - 1	1A	20	0	P1 1A	12	0	P1
(TAXI CLEARANCE)	1P040035		0	P1 1A	14		*3
	1P040036		5	*1 1P040037		8.5	*1
	1A	10	13	P2 1A	11	13	P1
	1P040038		13	P1 1P040039		16.75	P1
040002 TAXI PROCEDURE - 2	0A	02	0	P2 4D	32	0	P1
(TAXI FROM GATE TO	4M	02	1	P3 4B	03	1	P4
TAXIWAY D)	1P070011		5	P1 1P	10	5	CP1
	4E	09	0	CP3 4E	15	10	CP3
	4E	15	13	CP1 3V	18	20	CP1
	3V	26	22.07	CP1 7A	28	26	CP1
	7A	33	28.28	CP1 4A	21	30	CP1
	4A	22	32	CP1 4A	23	15	P1
	4M	01	15	P2 4A	58	15	P1
040003 TAXI PROCEDURE - 0	0A	02	0	P3 4M	01	0	P4
(TURN ONTO TAXIWAY	4B	03	10	P1 4M	32	10	P4
D AND TAXI TO HOLD	4D	29	1	P1 4B	38	1	P1
POINT SHORT OF							
RWY-08)							
040004 HOLD SHORT OF RWY 08							
FOR DEPARTING AND							
ARRIVING TRAFFIC							
040005 TAXI PROCEDURE - 4	1A	14	0	P4 1P040001		0	*1
(CROSS RWY 08 AND	1A	10	4	P3 1A	11	4	P3
TAXI TO HOLD POINT	1P040003		4	P1 4D	52	8	P1
AT TAXIWAY C	4B	03	8	P2 3A	02	8	P4
JUNCTION)	4M	03	8	P1 1A	15	30	*1
	1P040030		30	*1 1P040031		33	*1
	1A	11	35	P3 1P040003		35	P1
	4D	28	53	P2 4B	03	53	P1
040006 HOLD AT JUNCTION OF							
TAXIWAYS C AND D FOR							
TRAFFIC TO CLEAR							
040007 TAXI PROCEDURE - 5	4D	52	0	P1 4B	03	1	P2
(TAXI FROM JUNCTION	3A	04	0	P1 4M	03	4	P2
TO TAXIWAY L)	1A	15	30	*2 1P040032		30	*1
	1P040032		33	*1 1A	25	35	CP4
	1A	12	35	CP2 1P040034		35	CP1
	1B	11	40	CP3 4D	28	1	44
	4B	03	1	P2			P2
040008 TAXI PROCEDURE - 6	4M	01	0	P4 3A	03	0	P2
(TURN ONTO TAXIWAY L	4B	03	10	P2 4M	03	10	P3
AND TAXI INTO RWY	4D	28	1	P2 4B	03	1	40
9L HOLD AREA)	4M	01	1	P4 4D	28	1	50
040010 TAXI PROCEDURE - 1A	1Q	24	0	CP3 1Q	28	0	CP1
(TAXI CLEARANCE)	1P040035		0	CP1 1Q	18	4	CP2
	1P040036		4	CP1 1P040037		7.5	CP1
	1Q	14	11	CP3 1Q	15	11	CP1
	1P040038		11	CP1 1P040039		14.75	CP1
040011 TAXI PROCEDURE - 4A	1Q	16	0	CP4 1P040001		0	CP1

	1Q	23	4	CP1	1Q	15	4	CP3
	1P040003		4	CP1	4D	52	8	P1
	4B	03	8	P2	9A	02	8	P4
	4M	03	8	P1	1Q	30	30	CP1
	1P040030		30	CP1	1P040031		33	CP1
	1Q	23	35	CP1	1Q	15	35	CP3
	1Q	23	35	CP1	1Q	15	35	CP3
	1P040003		35	CP1	4D	28	53	P2
	4B	03	53	P1				
040012 TAXI PROCEDURE - 5A	4D	52	0	P1	4B	03	1	P2
	6A	04	0	P1	4M	03	4	P2
	1Q	30	30	CP2	1P040032		30	CP1
	1P040033		33	CP1	1Q	24	35	CP4
	1Q	28	35	CP2	1P040034		35	CP1
	1R	12	40	CP2	4D	28	44	P2
070001 BEFORE TAKEOFF CHECKLIST - 1	1P070012		0	P1	1P	02	7	CP1
	6B	02	1.5	CP3	9B	03	8	CP1
	1P070013		10	P1	1P	10	10	P1
	1P070014		11	CP1	1P	07	11	CP4
	6B	03	12	CP1	1P070015		14	P1
	1P	10	14	P1	1P070014		15	P1
	1P	07	15	CP4	6B	03	16	CP1
	1P070016		18	CP1	1P	10	16	P4
	4C	16	15.6	CP1	4N	05	21.1	CP2
	1P070017		22.5	CP1	1P	06	22.5	CP3
070002 BEFORE TAKEOFF CHECKLIST - 2	6B	03	0	CP1	1P070018		2	P1
	1P	10	2	P3	4G	03	3.2	P1
	1P070019		5.7	CP1	1P	09	5.7	CP2
	6B	03	7.1	CP1	1P070019		9.1	P1
	1P	10	9.1	P1	1P070020		10.1	CP1
	1P	07	10.1	CP2	6B	03	11	CP1
	1P070021		13	CP1	1P	10	13	P1
	1P070022		14	P1	1P070023		18.5	P1
	1P	09	14	CP3	1P070024		24	CP1
070003 BEFORE TAKEOFF CHECKLIST - 3	6B	03	0	CP1	1P070025		2	CP1
	1P	10	2	P1	1N	03	3.5	CP1
	6A	11	5.43	CP1	1P070026		7.8	CP1
	1P	06	7.8	P4	6B	03	8.5	CP1
	1P070027		9.5	CP1	1P	02	9.5	P1
	7G	17	11	P1	1P070026		13.2	P1
	1P	06	13.2	CP4	6B	03	14	CP1
	1P070018		16	CP1	1P	12	16	P3
	6B	03	17	CP1				
070004 CLEARED TO TAXI UNTIL RUNWAY 9L	1B	14	0	CP1	1B	15	0	CP1
	1P070005		0	CP1	1P070006		3.6	CP1
	1B	13	6	*2	1P070007		6	*1
	1B	14	9	CP2	1B	15	9	CP2
	1P070008		9	CP1	4D	52	13	P1
	4B	03	14	P2	4M	01	14	P4
	4B	03	24	P1	4D	28	27	P1
	6A	04	10	P3				
070005 RECEIVE TAKEOFF CLEARANCE	1B	15	0	P2	1P070009		0	*1
	1B	14	3	P3	1B	15	5	P3
	1P070010		3	P1				
070006 TAKEOFF ROLL	9A	02	0	P1	4A	04	0	2 P1
	4B	05	0	P1	7F	29	3 1 2	P2
	7F	34	3 1 2	P3	4B	05	5 1 1	P1
	7F	27	6 1 2	CP2	7F	30	8 1 2	CP3
	4B	07	10 2	2CP1	3A	01	12 4	4CP4



	9A	04	4	2	2	P4	3A	01	23	4	4	P1
	3A	09	20	2	2	CP3	1P070001		20			CP1
	1P	12	20			P4	3A	03	20			CP4
	1P070002		27			CP1	1P	11	27			P3
070007 ROTATION, FLARE, AND	3A	06	0			CP4	1P070003		1			CP1
GEAR UP	1P	11	1			CP3	4A	24	2	7	3	P1
	3A	01	4	2	5	P2	3L	01	10	5		5CP4
	4D	01	10	2	2	CP2	4D	07	15			2CP2
	4D	09	16			2CP3						
070008 SET HEADING BUGS TO	3S	11	0			P1	3S	12	5			P2
090 DEG AND COURSE	3S	11	5			CP1	3S	12	10			CP2
BUGS TO 105 DEG												
070009 SET EADI AND MFD FOR	2K	01	0			CP4	2K	25	2.67			CP1
TAKEDOFF	2K	38	4.05			CP3	2K	07	5.43			CP3
	2J	32	9.66			CP1	2J	15	11.81			CP1
	2K	14	7.39			CP1						
070010 TAKEOFF ROLL - A	5A	02	0			P1	4B	05	0			P1
	7F	29	3	1	2	P2	7F	34	3	1	2	P3
	4B	06	5	1	1	P1	4A	04	0			P3
	8A	04	4	2	2	P4	3A	01	20	4	4	P1
	7F	27	8	1	2	CP2	7F	30	8	1		2CP3
	4B	07	10	2	2	CP1	3A	01	12	4		4CP4
	3A	09	20	2	2	CP3	1P070001		23			CP1
	1P	12	20			P4	3A	03	25			CP4
	1P070002		27			CP1	1P	11	27			P3
070011 ROTATION, FLARE, AND	3A	06	0			CP4	1P070003		1			CP1
GEAR UP - A	1P	11	1			P3	4A	24	2	2	5	P2
	3A	01	4	3	3	P2	3L	01	4	4	4	P4
	3L	01	10	5	5	CP4	4D	01	10	2		2CP2
	4D	07	15			2CP2	4D	09	10			2CP2
070012 CLEARED TO TAXI ONTO	1K	23	0			CP2	1K	36	0			CP1
RUNWAY 9L - A	1P070005		0			CP1	1P070006		36			CP1
	1K	32	6			CP1	1P070007		6			CP1
	1K	23	9			CP3	1K	36	9			CP2
	1P070008		9			CP1	4D	52	13			P1
	4B	03	14			P2	4B	01	14			P4
	4B	03	24			P1	4B	28	27			P1
	8A	04	10			P3						
070013 WAIT FOR TAKEOFF												
CLEARANCE												
070014 RECEIVE TAKEOFF	1K	32	0			P1	1P070009		0			P1
CLEARANCE	1K	23	3			P4	1K	36	3			P3
	1P070010		3			P1						
070015 BEFORE TAKEOFF	0B	03	0			CP1	1P070030		2			CP1
CHECKLIST - 3A	1P	10	2			P2	1K	03	2.7			CP1
	1P070026		4.05			CP1	1P	06	4.63			P4
	0B	03	5.13			CP1	1P070031		7.13			CP1
	1P	12	2.13			P4	2H	02	8.23			P1
	1P070032		9.26			P1	1P	18	9.26			CP1
	3B	03	9			CP1	1P070027		11			CP1
	1P	02	11			P1	7G	17	12.0			P1
	1P070026		14.7			P1	1P	06	14.7			CP4
	0B	03	15.2			CP1	1P070023		17.2			CP1
	1P	12	17.2			P3	5B	70	17.2			CP1
090001 CONTACT DEPARTURE	1K	18	0			*3	1P090001		0			*1
CONTROL (125.7)	1P090024		0			*1	1B	14	6			CP4
	1B	15	0			CP4	1P090002		6			CP1
	1B	07	0			CP3	1B	06	8			CP2
	1B	09	10.08			CP1	1B	06	13			CP1

	18	13	14.5	CP3	1b	16	14.5	CP1
	1P090003		14.5	CP1	1b	18	18	*4
	1P090005		18	*1	1N	07	21.5	CP1
	1N	18	23.64	CP1	1b	19	28	*1
	1P090006		28	*1	1b	13	32	CP4
	1b	16	32	CP2	1P090007		32	CP1
090002	CONTROL AIRCRAFT - A	4A	64	0	P2	8A	05	P1
090003	FLIGHT INSTRUMENT	3R	10	0	P4	3L	02	P1
	SCAN - A	3A	10	0	P1	3S	01	P2
090004	CROSS Rwy 27R MIDDLE	3V	13	0	5	5	P1	4A
	MARKER, TURN TO HDG	3S	12	5	2	2	P2	
	105							
090005	COMPLETE TURN - ON							
	HDG 105							
090006	RETRACT FLAPS TO	3A	01	0	2	2	P3	1P090022
	FLAPS 1. SET CLIMB	1P	10	2.37	2CP4	4E	07	2.37
	THRUST.	4E	15	5.69	2CP3	4N	03	7.92
		4N	04	10	CP2	1P090063		11
		1P	07	11	P4	1b	03	12
		7F	25	15	P4	7F	30	15
090007	REACH 3000 FT ABOVE	3H	02	0	P1	4b	03	2
	GROUND LEVEL. BEGIN							
	ACCELERATION TO 250							
	KIAS. MAINTAIN 500-							
	1000 FT/MIN CLIMB							
090008	CONTROL AIRCRAFT - B	4A	64	0	P3	8A	05	0
090009	FLIGHT INSTRUMENT	3R	56	0	P1	3L	02	0
	SCAN - B	3A	10	0	P2	3S	01	0
090010	RECEIVE INSTRUCTIONS	1b	19	0	*2	1P090025		0
	TO TURN TO HDG 070	1P090026		3	*1	1b	24	7
	TO INTERCEPT J37	1b	16	7	P3	1P090027		7
		1P090025		7	P1	4A	28	8
		3S	12	12	5	5	P2	
090011	RETRACT FLAPS TO	3A	01	0	2	2	P3	1P090022
	FLAPS 0.	1P	10	2.37	5	5CP4	4L	06
		4E	15	5.69	CP3	4N	03	7.92
		4N	04	10	CP2	1P090064		11
		1P	07	11	P4	1b	03	12
		7F	25	15	P4	7F	30	15
090012	COMPLETE TURN - ON							
	HDG 070							
090013	REACH 250 KIAS							
090014	AFTER TAKEOFF CHECK-	1P090017		0	P1	1P	10	0
	LIST	58090001		1.2	CP1	1P090018		3.2
		7M	12	4.1	LP1	7M	13	6.51
		1P090019		7.29	CP1	1P	06	7.29
		58090001		8	CP1	1P090020		10
		1P	11	10	P3	4D	08	11
		4D	11	11.72	CP1	1P090021		12.5
		1P	06	12.5	P3	58090001		13.5
		1P090022		15.5	CP1	1P	10	15.5
		1P090021		15.5	CP1	1P	06	16.5
		58090001		18	CP1	1P090023		20
		1P	09	20	P4			
090015	RECEIVE CLEARANCE TO	1b	16	0	*4	1P090024		0
	CLIMB TO 12000 FT	1b	24	4	CP2	1b	16	4
		1P090030		4	CP1			
090016	CONTROL AIRCRAFT - C	4A	64	0	P4	8A	05	0
090017	FLIGHT INSTRUMENT	3R	56	0	P2	3L	02	0

090018	SCAN - C	3A	10	0	P3 3S	01	0	P4
090018	CONTROL AIRCRAFT - D	4A	05	0	P1 3A	05	0	P4
090019	FLIGHT INSTRUMENT	3R	56	0	P3 3L	02	0	P4
090020	SCAN - D	3A	10	0	P4 3S	15	0	P1
090020	REACH 10000 FT. BEGIN TURN TO HDG 053.	3S	04	0 5 5	P1 4A	28	2 2 2	P4
090021	SET CI COURSE CURSOR TO 053 DEG.	3S	12	0	2			
090022	TURN COMPLETED - ON HDG 053. BEGIN ACCELERATION TO 180 KIAS	4B	03	0	P2 7F	25	0	P1
090022		7F	30	2 1 1	P3 3A	01	2 2 2	P1
090023	HANDOFF TO ATLANTA EAST DEPARTURE SEC- TOR. (123.95)	1B	19	0	*3 1P090008	0		*1
		1P090009	3.1		*1 1B	26	7	CP1
		1B	17	7	CP1 1P090010		7	CP1
		1P090011	10.5		CP1 1B	01	15	CP2
		1B	02	15	CP2 1B	03	17.9	CP1
		1B	28	21	CP1 1B	17	21	CP2
		1P090012	21		CP1 1P090013		25.50	CP1
		1B	18	28	*4 1P090014		28	*1
		1N	07	32	CP1 1B	18	35	*4
		1P090015	36		*1 1B	24	40	CP4
		1B	16	40	CP1 1P090016		40	CP1
090024	TUNE COMPANY AND EMERGENCY FREQU'S	1A	01	0	CP3 1A	02	0	CP2
		1A	03	2.98	CP1 1A	07	6	CP4
		1A	08	6	CP3 1A	09	6.01	CP1
090025	RECEIVE NOTICE OF CONFLICTING TRAFFIC	1B	19	0	*4 1P090031		0	*1
		1P090032	3.75		*1 1P090033		8.75	*1
		8A	02	10	P1 3A	03	10	CP1
		1B	25	12	CP1 1B	17	12	CP2
		1P090034	12		CP1 1P090035		16	CP1
090026	BEGIN 500 FT/MIN RATE OF CLIMB							
090027	LEVEL OFF AT 16000							
090028	RECEIVE CLEARANCE TO RESUME CLIMB TO CRUISE ALTITUDE	1B	19	0	*2 1P090036		0	*1
		1P090037	3		*1 1B	25	7	CP2
		1B	17	7	CP3 1P090038		7	CP1
		1P090039	10.5		CP1			
090029	CLIMB THRU 23000 FT. HANDOFF TO SPARTAN- BURG HIGH SECTOR (133.7)	3H	02	0	CP1 1B	25	2	CP3
		1B	17	2	CP4 1P090040		2	CP1
		1P090046	5.7		CP1 1B	19	9	*2
		1P090041	9		*1 1P090042		12.5	*1
		1B	25	17	CP3 1B	17	17	CP4
		1P090043	17		CP1 1P090044		20.7	CP1
		1B	07	23	CP3 1B	08	23	CP2
		1B	09	25.88	CP1 1B	06	28	CP1
		1B	28	30	CP2 1B	17	30	CP4
		1P090045	30		CP1 1P090046		33.7	CP1
		1B	19	38	*2 1P090047		38	*1
		1P090048	41.7		*1 1N	07	45	CP1
		1B	25	47	CP2 1B	17	47	CP3
		1P090049	47		CP1			
090030	BEGIN MACH 0.65 SPEED SCHEDULE	3H	01	0	P3 4B	03	0	P2
090031	CLIMB THRU 28000 FT. REPORT TO ATC.	3H	02	0	CP4 1B	25	3	CP2
		1B	17	3	CP3 1P090050		3	CP1
		1B	20	9	*1 1P090051		9	*1
		1P090052	12.5		*1 1B	25	15	CP2

090032	REDUCE RATE OF CLIMB TO 500 FT/MIN	1B 4B	17 03	15 0	CP3 1P090053 P3 3L 01	15 0	CP1 P4
090033	TUNE AND MONITOR SPARTANBURG VOR (115.7)	8B 5V 5V 5V 1P 5G	06 01 03 12 12 05	0 11 13.93 18.20 19.6 22.5	CP2 8B090002 CP3 5V 02 CP1 5V 11 CP2 1P090065 P1 5H 03 P1	6 11 10 19.6 19.6	CP1 CP2 CP1 CP1 CP1
090034	LEVEL OFF AT 29000 FT. ACCELERATE TO LONG RANGE CRUISE SPEED (MACH 0.67)	3H 3H 3H 3F 4B	02 02 02 01 03	0 3 9 12 20	P1 4A 64 P1 3H 02 P1 4B 03 P3 4A 64 P2 3F 01	0 6 12 10 20	P2 P1 P2 P3 P3
090035	REACH MACH 0.67	3F	01	0	P3 4B 03	0	P2
090036	CONTROL AIRCRAFT - E	4A	65	0	P2 8A 06	0	P1
090037	FLIGHT INSTRUMENT SCAN - E	3R 3A	56 11	0 0	P4 3L 03 P1 3S 15	0 0	F1 P2
090038	CONTROL AIRCRAFT - F	4A	65	0	P3 8A 06	0	P2
090039	FLIGHT INSTRUMENT SCAN - F	3R 3A	57 11	0 0	P1 3L 03 P2 3S 15	0 0	P2 P3
090040	TUNE GORDONSVILLE VOR (115.5)	8B 5U 5U 5U 1P 5H	06 01 03 12 12 02	0 12 15 20 20 20	CP2 8B090003 CP3 5U 02 CP2 5U 11 CP2 1P090066 P1 5G 04 CP1	6 12 18 20 25	CP1 CP3 CP2 CP1 P1
090041	CROSS SPARTANBURG VOR. TURN TO HDG 047	3S	04	0	P2 4A 26	0	P1
090042	TURN COMPLETE - ON HDG 047.						
090043	RECEIVE CLEARANCE TO CLIMB TO 33000 FT	1B 1P090055 1B 1P090057 1B 1B 1B 1B 1P090059 1P090060 1B 1P090062 1B	19 05 17 02 05 17 09 20 20 15	0 3.5 8 12 15 20 22 26 30 36 39.5 42	*2 1P090054 *1 1B 25 CP4 1P090056 CP1 1B 01 CP2 1B 03 CP1 1B 25 CP4 1P090058 CP1 1B 18 *1 1N 07 *2 1P090061 *1 1B 14 CP4 1P090002 P2 3L 02 P4	0 8 8 15 17.4 22 22 30 33.5 36 42 42	*1 CP3 CP1 CP2 CP1 CP3 CP1 *4 CP1 *1 CP4 CP1
090044	BEGIN CLIMB TO 33000 FT.	4A 3K	29 10	0 0	P2 3L 02 P4	0 0	P1
090045	CLIMB THRU 32000 FT. BEGIN 500 FT/MIN RATE OF CLIMB.	3H 1P	02 11	0 2	CP1 1P090067 P4	2	CP1
090046							
090047							
090049							
090050	CONTROL AIRCRAFT -A1 (ATT CWS MODE)	4A	66	0 5 5	P3		
090051	FLIGHT INSTRUMENT SCAN -A1	2J 3A 2K	02 10 46	0 0 0	P2 3L 02 P1 2K 14 P1 P1	0 0	P1 P2
090052	CROSS WPT SIDI	2K	14	0	P1		
090053	TURN TO HEADING 105						
090054	HEADING CHANGE PROC.	4A	71	0	P1 2K 14	0	P2

	2K	33		P1	3L	02		P1
(ATTACHES)								
090055 COMPLETE TURN - ON HDG 105								
090056 ENGAGE VERT PATH GUIDANCE MODE	2H	07	0	P1	2H	08	1.42	P1
	2H	39	2.76	P1	2H	36	4.13	P1
	2H	39	4.91	P1	2H	40	6.27	P1
	2K	14	7.05	P2				
090057 CROSS WPT SID2. AGCS TURNS AIRCRAFT TO HDG 088.								
090058 REACH 10000 FT. BEGIN ACCELERATION TO 280 KIAS.	4H	07	0	P2	3F	01	1	P1
	7F	23	3	P1	7F	30	5.24	P3
090059 HANDOFF TO ATLANTA CENTER EAST DEPARTURE CONTROL (123.95)	1R	16	0	*1	1P090059		0	*1
	1P090070		4	*1	1K	23	0	CP1
	1R	15	6	CP1	1P090073		6	CP1
	1R	01	10	CP3	1R	02	10	CP2
	1R	03	12.93	CP2	1R	05	15	CP2
	1K	14	17	CP3	1R	15	17	CP2
	1P090093		17	CP1	1P090094		21	CP1
	1R	16	23	*2	1P090014		23	*1
	1R	07	27	CP1	1R	10	35	*2
	1P090015		30	*1	1K	14	34	CP4
	1R	15	34	CP3	1P090016		34	CP1
090060 CONTACT ATLANTA DEPARTURE CONTROL (125.7)	1K	32	0	*2	1P090001		0	*1
	1P090024		4.5	*1	1K	24	0	CP1
	1R	36	6	CP4	1P090002		6	CP1
	1R	07	8	CP3	1R	08	8	CP4
	1R	09	12.9	CP2	1K	16	12.46	CP2
	1K	14	14	CP4	1K	15	14	CP3
	1P090003		14	CP1	1R	16	18	*2
	1P090005		18	*1	1R	07	22	CP1
	1R	08	22	CP1	1R	16	25	*3
	1P090006		25	*1	1R	24	28.5	CP2
	1R	37	28.5	CP1	1P090007		28.5	CP1
090061 TUNE COMPANY FREQ	10	01	0	CP4	10	02	0	CP2
	10	03	3	CP2	10	12	5	CP2
090062 TUNE EMERGENCY FREQ.	10	07	0	CP4	10	08	0	CP4
	10	09	2.97	CP2				
090063 CLIMB THRU 15000 FT. RESET ALTITUDE BARO VALUE TO 29.92	3H	04	0	CP4	3H	03	0	CP1
	1P090055		0	CP1	1P	02	0	P3
	3H	04	3	P4	3H	03	3	P4
090064 CLIMB THRU 21000 FT.	3H	02	0	CP3				
090065 HANDOFF TO SPARTANBURG HIGH SECTOR (133.7)	1R	24	0	CP4	1R	15	0	CP4
	1P090040		0	CP1	1R	16	5	*4
	1P090074		5	*1	1P090075		9	*1
	1K	24	10	CP3	1K	37	10	CP2
	1P090076		10	CP1	1R	07	14	CP3
	1K	08	14	CP4	1K	09	15.9	CP2
	1K	05	19	CP2	1R	25	20.47	CP1
	1K	32	20.47	CP3	1P090077		20.47	CP1
	1P090078		23.51	CP1	1K	32	27.5	*4
	1P090047		27.5	*1	1P090048		30.0	*1
	1R	24	34.3	CP4	1R	15	34.3	CP4
	1P090049		34.3	CP1				
090066 CROSS WPT SID3. AGCS BEGINS TURN TO HDG 057.								
090067 MON AUTO HEADING	2K	14	0	P2	2K	33	0	P1

090068	CHANGE MANEUVER	2K	47	0	P1 2K	52	0	P1
	TUNE NAV-1 TO SPAR-	80090002		0	CP1 5W	01	5	CP3
	TANBURG VOR (115.7)	5W	02	5	CP2 5W	03	7.37	CP2
		1P090095		0	CP1 1P	02	8	P2
090069	TURN COMPLETE - ON							
	HOG 257.							
090070	BEGIN MACH 0.65	4B	07	0	P2 3F	01	.5	P3
	CLIMB.	7F	25	3	P1 7F	30	3	P1
090071	RECEIVE NOTICE OF	1R	33	0	*1 1P090079		0	*1
	CONFLICTING TRAFFIC	1P090080		3	*1 1P090081		7	CP1
		1R	25	10	CP2 1R	37	10	CP3
		1P090082		10	CP1 1P090083		13.3	CP1
090072	USE ALT ENG MODE TO	2H	33	0	P1 2H	31	2.5	P1
	ESTABLISH NEW ALTI-	2H	42	3.28	P1 2H	34	1	P1
	TUDE WHILE IN VERT	2H	28	4.00	P1 2H	30	5.48	P1
	PATH MODE	2H	30	6.26	P1			
090073	USE FPA SEL MODE TO	3L	02	0	P1 2H	21	1	P1
	CONTROL RATE OF	2H	22	2.4	P1 2H	26	3.17	P1
	CLIMB	2H	27	5.65	P1			
090074	REACH 26000 FT							
090075	MONITOR AUTO LEVEL	2H	25	0	P1 3H	02	.77	P3
	OFF WHILE IN ALT ENG	2K	17	2.9	P1 4B	02	5.17	P2
	MODE	7F	25	5.17	P4 7F	30	5.17	P3
		3A	10	5.17	P2			
090076	SET MFD TO 32 NM MAP	2K	10	0	P1 2K	17	2.68	P1
090077	RECEIVE CLEARANCE TO	1R	33	0	*2 1P090084		0	*1
	CONTINUE CLIMB TO	1P090085		3.1	*1 1R	24	6.5	CP4
	CRUISE ALTITUDE	1R	15	6.5	CP4 1P090086		6.5	CP1
		1P090087		9.5	CP1			
090078	RE-ESTABLISH VERT	2H	39	0	P1 2H	40	1.36	P1
	PATH MODE	2H	36	2.14	P1 2H	32	2.92	P1
		4B	07	3.7	P2 7F	25	3.7	P4
		7F	30	3.7	P3 3F	01	4.14	P3
090079	CLIMB THRU 28000 FT.	3H	02	0	CP4 1R	24	2.37	CP4
	REPORT TO ATC.	1R	15	2.37	CP4 1P090080		2.37	CP1
		1R	16	7	*2 1P090088		7	*2
		1P090089		10	*1 1R	25	11	CP3
		1R	37	11	CP4 1P090090		11	CP1
090080	REACH 31000 FT. AC-							
	CELERATE TO LONG							
	RANGE CRUISE SPEED							
	(MACH 0.67)							
090081	REACH MACH 0.67	4B	07	0	P2 3F	01	.5	P3
		7F	25	3	P1 7F	30	3	P1
090082	RECEIVE CLEARANCE TO	1R	32	0	*4 1P090094		0	*1
	CONTINUE CLIMB TO	1P090095		3.5	*1 1R	25	0	CP4
	CRUISE ALTITUDE	1R	33	8	CP1 1P090096		8	CP1
		1P090097		12	CP1			
090083	TUNE HIGH ROCK ULTRA	1R	01	0	CP3 1R	02	0	CP2
	HIGH SECTOR (134.55)	1R	03	2.93	CP2 1R	05	4.51	CP2
		1R	27	6	CP1 1R	38	6	CP1
		1P090091		6	CP1 1P090092		9	CP1
		1R	16	13	*2 1P090094		13	*1
		1R	07	17	CP1 1R	16	20	*1
		1P090061		20	*1 1P090062		23.5	*1
		1R	27	26	CP2 1R	30	20	CP4
		1P090002		26	CP1			
B9FA01	ENGINE 1 FIRE							
B9FA02	ENGINE FIRE SEQUENCE	7P	39	00	*1 1P090001		.71	P1

- PRIMARY	1P	19	.71	CP1	7P	15	2.21	CP1
	7P	33	2.21	CP1	7P	15	3.55	CP1
	1PB9EA02		4.47	CP1	1P	20	4.47	P1
	4B	08	0.47	CP2	4A	23	0.97	P1
	1PB9EA04		8.97	CP1	1P	09	0.97	P1
	7P	00	12.21	CP3	1PB9EA15		13.01	CP1
	1P	09	13.61	P2	7P	17	15.48	CP2
	1PB9EA06		16.78	CP1	1P	09	10.78	P1
	7P	15	21.78	CP4	1PB9EA10		24.78	CP1
	1P	16	24.78	P3	7P	16	26.91	CP2
	7P	27	27.18	CP2	1PB9EA11		28.68	CP1
	1P	15	28.68	P4	7P	16	42.18	CP3
	1PB9EA12		42.68	CP1	1P	06	42.68	P4
B9EA03 ENGINE FIRE SEQUENCE	1R	25	00	P1	1R	41	00	P1
- NOTIFY ATC	1PB9EA13		00	P1	1R	35	0.8	**
	1PB9EA14		3.8	*1	1PB9EA27		3.0	*1
	1R	42	22.8	P1	1R	41	22.8	P2
	1PB9EA15		22.8	P1	1R	05	33.0	CP1
	1R	07	36.8	CP2				
B9EA04 ENGINE FIRE SEQUENCE	3B	02	00	CP3	0B	05	5.9	CP2
READ CHECKLIST	9B	03	10.9	CP1	1PB9EA16		12.9	CP1
PRIMARY	1P	16	14.4	P4	3R	03	14.4	CP1
	1PB9EA17		16.4	CP1	1P	16	16.4	P4
	3B	03	17.9	CP1	1PB9EA18		19.9	CP1
	1P	15	19.9	P4	0B	03	21.4	CP1
	1PB9EA19		23.4	CP1	1P	16	23.4	P4
	1PB9EA22		24.9	CP1	1P	06	24.9	P4
B9EA05 SECONDARY ENGINE	3B	03	00	CP1	1PB9EA20		2.0	CP1
FIRE SEQUENCE	1P	15	2.0	P4	7U	31	3.5	CP2
	1PB9EA21		5.35	CP1	1P	16	5.35	P4
	7U	18	6.85	CP1	1PB9EA22		7.25	CP1
	1P	16	9.25	P4	7L	22	10.75	CP1
	1PB9EA23		13.04	CP1	1P	13	13.04	P3
	7C	31	16.34	CP3	7C	35	18.84	CP4
	7B	33	20.25	CP2	1PB9EA24		22.0	CP1
	1P	15	22.0	P3	1PB9EA25		22.0	CP1
	1P	16	27.7	P4	1PB9EA26		27.7	CP1
	1P	16	29.2	P4	7L	31	29.2	CP1
09FF01 HYD SYS B PUMP OVHT	7A	24	0	CP1	7A	24	0	P1
B9EA01 HYD SYS B PUMP OVHT	7A	24	0	CP1	7A	24	0	P1
B9EA02 HYD SYS B PUMP OVHT	7A	24	0	CP1	7A	24	0	P1
B9EA03 HYD SYS B PUMP OVHT	7A	24	0	CP1	7A	24	0	P1
B9EA04 HYD SYS B PUMP OVHT	7A	24	0	CP1	7A	24	0	P1
B9EA05 HYD SYS B PUMP OVHT	7A	24	0	CP1	7A	24	0	P1
	1P010122		0.53	CP1	1P	06	0.53	P3
	7A	25	1.53	CP1	1P	03	1.53	P1
	7A	25	3.67	CP1	7A	06	5.22	CP1
	7A	24	7.17	P1	7A	24	7.17	CP1
	7A	25	7.7	CP1	7A	11	7.84	CP1
	1P04FE01		10.39	CP1	1P	15	10.39	P1
	1P	03	13.1	P1	3B	02	16	CP3
	3P	05	16	CP1	3B	03	26	CP2
	1P04FE02		30	CP1	1P	16	30	P4
	1P04FE03		32	CP1	1P	08	32	P2
	1P	03	33.6	P1	3B	08	32	CP1
110001 REACH 33000 FT (EN	4B	03	0	P2	3F	01	0	P3
ROUTE CRUISE ALTITUDE). BEGIN ACCELERATION TO LONG								

RANGE CRUISE SPEED (MACH 0.71)							
110002	REPORT REACHING 33000 FT.	1B 25	0	CP4 1B 32	0	CP1	
		1P110001	0	CP1 1P110002	4	CP1	
		1B 20	0	*3 1P110003	0	*1	
110003	REACH MACH 0.71	3F 01	0	P3 40 07	0	P2	
110004	PILOT REQUESTS RE- TURN TO ATLANTA .	1B 25	0	CP1 1B 17	0	CP2	
		1P110004	0	CP1 1P110005	4	CP1	
	CONTROLLER COORDI- NATES WITH ADJACENT SECTORS FOR RETURN VECTORS.	1B 20	6	*4 1P110006	6	*1	
110005	RECEIVE VECTORS FOR THE LANIER SIX STAR, PULASKI TRANSITION	1B 36	0	*1 1P110007	0	*1	
		1P110008	3.00	*1 1P110009	0.34	*1	
		1B 26	12	CP1 1B 17	12	CP1	
		1P110010	12	CP1 1P110011	16	CP1	
110006	BEGIN TURN TO HDG 270	4A 20	0	P2 3S 12	0	P2	
		3S 01	0	P2 3L 02	0	P1	
110007	TUNE RADIN ULTRA HIGH SECTOR (139.30)	1B 07	0	CP3 1B 08	0	CP2	
		1B 09	2.00	CP1 1B 06	5	CP1	
		1B 29	5.5	CP1 1B 17	0.5	CP1	
		1P110012	6.5	CP1 1P110013	10	CP1	
		1B 26	13	*2 1P110014	13	*1	
		1N 07	10	CP1 1B 30	18	CP2	
		1P110015	16	CP1			
110008	SET NAV-1 TO PULASKI VOR	5B 06	0	CP1 5B110001	5	CP1	
		5U 01	11	CP3 5U 02	11	CP3	
		5U 03	14	CP2 1P110020	16.5	CP1	
		1P 12	16.5	P1 5G 04	19	P1	
		5H 02	16.5	CP1			
110009	TURN COMPLETE - ON HDG 270						
110010	RECEIVE INSTRUCTIONS TO DESCEND TO 31000 FT	1B 19	0	*2 1P110016	0	*1	
		1P110017	3.0	*1 1B 25	0	CP3	
		1B 17	0	CP4 1P110018	0	CP1	
		1P110019	12	CP1			
11FD01	HYD SYS B LOW PRESS.	7A 24	0	CP1 7A 24	0	P1	
		1P11FD02	.53	CP1 1P 30	.53	P1	
		7A 29	1.53	CP1 1P 03	1.53	P1	
		7A 11	3.07	CP1 7A 13	4.22	CP1	
		1P11FD01	4.77	CP1 1P 02	4.77	P2	
		1P 03	6.77	P1 4A 02	5	CP2	
		4A 19	6.21	CP1 7A 20	7.20	CP2	
		4A 06	10	CP1 7A 06	13.33	CP1	
		7A 04	15.26	CP1 4D 41	16.74	CP1	
		5B 02	20	CP3 00 03	20	CP1	
		54 03	36	CP1 1P11FD02	36	CP1	
		1P 15	38	P2 5B 03	41.7	CP1	
		1P11FD03	43.7	CP1 1P 16	43.7	P3	
		5B 03	47	CP1 1P11FD04	49	P1	
		1P 19	49	P3 5B 03	53	CP1	
		1P11FD03	55	CP1 1P 08	55	P2	
		5B 09	55	CP1			
11AF01	ENG NO.2 OIL FILTER BYPASS	7F 19	0	CP1 1P11AF01	.83	CP1	
		1P 15	.03	P4 1P 03	4	P1	
		7F 19	.83	P1 40 02	2	P2	
		4A 23	3	P1 46 10	6	P1	
		7F 10	5	CP1 7F 34	5.83	CP1	
		1P11AF02	8	CP1 1P 17	8	P1	



110801	NO.2 CSU LOW OIL PRESSURE	1P 03	11.0	P1				
		78 73	0	CP1 78 73	0		P1	
		1P110801	.75	CP1 1P 14	.75		P4	
		73 74	.75	CP2 1P 03	2.85		P1	
		78 09	3.24	CP1 1P110802	4.26		CP1	
		1P 19	4.26	P1 78 13	4.0		CP2	
		78 14	6.46	CP1 78 68	6.54		CP2	
		73 72	10.72	CP1 78 63	13.24		CP1	
		7L 13	15.35	CP4 78 24	17.64		CP2	
		78 44	18.56	CP2 78 25	20.00		CP2	
		1P110803	21	CP1 1P 17	21		P2	
		38 02	21	CP3 38 05	20		CP1	
		38 03	30	CP1 1P110804	38		CP1	
		1P 17	30	P2 38 03	39		CP1	
		1P110805	42	CP1 1P 17	42		P3	
		89 03	43	CP1 1P110803	47		CP1	
		1P 08	47	P2 1P 03	49		P1	
		08 09	47	CP1				
130001	REPORT REACHING CRUISE ALT	1K 26	0	CP1 1K 38	0		CP2	
		1P110001	0	CP1 1P110002	4		CP1	
		1R 33	5	*3 1P110003	5		*1	
130002	MON AUTO LEVEL OFF WHILE IN VERT PATH MODE	3H 02	0	P3 2K 17	2.13		P1	
		48 02	4.4	P2 2F 25	7.13		P4	
		7F 30	7.13	P3 3A 10	7.57		P2	
130003	CROSS WPT LINED							
130004	PILOT REQUESTS RETRN TO ATLANTA. CONTROL- LER COORDINATES WITH ADJACENT SECTOR CON- TROLLERS FOR RETURN VECTORS.	1R 26	0	CP2 1R 38	0		CP3	
		1P110004	0	CP1 1P110005	4		CP1	
		1R 33	0	*4 1P110006	6		*1	
130005	RECEIVE VECTORS	1R 33	0	*2 1P130001	0		*1	
		1P130002	3.7	*1 1R 26	7		CP3	
		1R 30	7	CP4 1P130003	7		CP1	
130006	TURN TO HDG 270							
130007	HEADING CHANGE MAN- EUVER USING TKA SEL MODE (VERT PATH CUR- RENT MODE)	2H 19	0	P1 2H 20	2.0		P1	
		2H 17	3.51	P1 2H 14	4.36		P1	
		2H 15	5.79	P1 2H 42	6.56		P1	
		2H 28	7.34	P1 2H 29	8.76		P1	
		2K 17	9.34	P1				
130008	TURN COMPLETE - ON HDG 270							
130009	RECEIVE INSTRUCTIONS FOR A 4-D SHINE 01 STAR	1R 34	0	*1 1P130004	0		*1	
		1P130005	4.5	*1 1P130006	9		*1	
		1R 26	10	CP4 1R 39	10		CP1	
		1P130010	10	CP1 1P130011	14		CP1	
		33 01	2	CP2				
130010	SET UP New 4-D FLIGHT PLAN							
130011	LOOK UP PAGE 2	2L 64	0	CP1 2L 16	2.03		CP2	
		2L 60	4.11	CP2 2L 16	5.50		CP1	
130012	LOOK UP PAGE 2 - STAR CALL-UP	2L 12	0	CP2 2L 16	10.41	2	2CP1	
		2L 20	13.25	2CP2 2K 17	14.76	2	2CP1	
130013	STAR NAME - SHINE 01	2L 55	1.40	CP1 2L 44	2.81		CP2	
		2L 45	4.16	CP2 2L 30	5.31		CP2	
		2L 41	6.66	CP1 2L 35	8.21		CP1	
		2L 26	9.56	CP1				
130014	LOOK UP PAGE 2 - AWY CALL-UP	2L 30	0	CP2 2L 16	5.32	2	2CP1	
		2L 20	10.66	2CP2 2K 17	12.17	2	2CP1	

130015	AWY NAME - JOLSK	2L	46	1.46	CP1 2L	33	2.01	CP2
		2L	46	4.16	CP3 2L	30	5.51	CP1
		2L	54	6.86	CP2			
130016	SHINE 01 AND J815K DISPLAYED ON MFJ. CG-PILOT DETERMINES THAT THE COMMON WPT ON THE STAR AND AWY IS THE WPT SHINE. AN EST MADE OF RKG AND BRG FROM WPT SHINE TO PI WHERE HDG 070 INTOPS J815K	2K	17	0	CP2			
130017	INITIALIZE PAGE	2L	03	0	CP1 2L	07	1.48	CP2
130018	DESTINATION NAME- IATL	2L	45	3.79	CP2 2L	37	5.14	CP2
		2L	56	6.6	CP2 2L	48	8.06	CP1
130019	ATC CLNC PAGE - CREATE WPT BASED ON BEARING AND RANGE FROM EXISTING WPT	2L	37	0	CP2 2L	38	15.09	2 2CP1
		2K	17	17.43	2 2CP1 2L	29	19.7	2 2CP3
130020	WPT001 BEARING/RANGE (234 DEG/ 27 NM)	2L	55	1.46	CP1 2L	44	2.81	CP2
		2L	45	4.16	CP2 2L	50	5.51	CP2
		2L	41	6.06	CP1 2L	27	6.21	CP2
		2L	28	9.69	CP1 2L	29	11.04	CP1
		2L	27	12.39	CP1 2L	32	13.74	CP1
130021	FL INPLT - 320	2L	42	0	CP2 2L	19	1.46	CP2
		2L	28	3.52	CP1 2L	27	4.87	CP1
		2L	35	6.22	CP1 2L	20	7.57	CP1
130022	GS INPLT - 250	2L	49	0	CP1 2L	19	1.47	CP2
		2L	27	5.53	CP1 2L	30	4.86	CP1
		2L	35	6.23	CP1 2L	20	7.58	CP3
130023	WPT NAME - LAKEE	2L	48	1.46	CP1 2L	37	2.81	CP1
		2L	47	4.16	CP1 2L	41	5.51	CP1
		2L	41	6.86	CP1			
130024	PTA INPLT - 10:21:00	2L	56	0	CP2 2L	26	1.46	CP3
		2L	39	2.01	CP1 2L	27	4.16	CP1
		2L	26	5.51	CP3 2L	35	6.86	CP1
		2L	39	8.21	CP1 2L	20	9.50	CP3
130025	HANDOFF TO BADIN ULTRA HIGH SECTOR (135.35)	1K	34	0	*2 1P130007	0	0	*1
		1P130008	4	4	*1 1K 24	5	5	CP3
		1K 39	5	5	CP2 1P130009	5	5	CP1
		1K 67	8.5	8.5	CP3 1K 08	8.5	8.5	CP4
		1K 69	11.4	11.4	CP2 1K 27	13	13	CP3
		1K 38	13	13	CP2 1P130001	13	13	CP1
		1P130002	17	17	CP1 1K 32	18	18	*1
		1P130014	18	18	*1 1K 07	21	21	CP1
130026	INITIAL TIME PATH (4-D) GUIDANCE MODE	2H	35	0	CP2 2H	39	2.15	CP1
		2H	49	3.51	CP1 2H	50	4.86	CP1
		2K	17	5.84	CP1 2K	23	7.91	CP1
		2K	31	5.64	CP1			
140001	CONTACT PULASKI HIGH SECTOR (132.75)	1B	01	0	CP2 1B	02	0	CP2
		1B	03	2.9	CP1 1B	04	5	CP1
		1B	26	6.5	CP2 1B	17	6.5	CP4
		1P140001	5.5	5.5	CP1 1P140002	10.5	10.5	CP1
		1B 20	15	15	*4 1P140003	15	15	*1
		1N 06	19	19	CP1 1B 36	23	23	*2
		1P140004	23	23	*1			
140002	BEGIN DESCENT TO 3100FT							

140003 ALTITUDE CHANGE PROC	4A	29	0	P2 3L	02	0	P1
	3H	02	0	P1 3R	10	0	P4
	4B	03	0	P2 3F	01	0	P3
140004 LEVEL OFF AT 31000 FT							
140005 RECEIVE VECTOR TO INTERCEPT POLASKI 225 RADIAL	1B	36	0	*3 1P140005		0	*1
	1P140006	3.27		*1 1P140007		7.63	*1
	1B	25	13	CP3 1B	17	13	CP4
	1P140008	13		CP1 1P140009		17	CP1
140006 TURN TO HDG 240							
140007 HEADING CHANGE PROC.	3S	01	0	P2 4A	28	0	P2
	3L	02	0	P1 3S	11	0	P1
	3R	58	0	P1			
140008 TURN COMPLETE - ON HDG 240							
140009 BEGIN TURN TO POLASKI 225 RADIAL							
140010 TURN COMPLETE - ON HDG 225							
140011 SET NAV-2 TO TUGCOA VOR (109.8)	8B	06	0	CP1 8B140011		6	CP1
	5V	01	12	CP3 5V	02	12	CP2
	5V	03	14.93	CP1 1P140042		17	CP1
	1P	13	17	CP1 5G	05	19.5	P1
	5H	03	17	CP1			
140012 HANDOFF TO LANIER HIGH SECTOR	1B	18	0	*4 1P140010		0	*1
	1B	24	4	CP4 1B	16	4	CP1
	1P140011	4		CP1 1B	07	8	CP3
	1B	08	8	CP2 1B	09	10.86	CP1
	1B	06	15	CP1 1B	28	14.5	CP3
	1B	17	14.5	CP3 1P140012		14.5	CP1
	1B	20	20	*4 1P140013		20	*1
	1N	07	23	CP1 1B	36	20	*2
	1P140014	26		*1			
140013 RECEIVE INSTRUCTIONS TO DESCEND TO 24000 FT	1B	36	0	*4 1P140015		0	*1
	1P140016	3.9		*1 1B	25	7	CP1
	1B	17	7	CP2 1P140017		7	CP1
	1P140018	11		CP1			
140014 BEGIN MACH 0.75 DESCENT							
140015 REACH 26000 FT							
140016 RECEIVE CLEARANCE TO DESCEND TO 11000 FT.	3H	02	0	CP1 1B	25	2	CP2
	1B	17	2	CP3 1P140019		2	CP1
	1B	19	7	*3 1P140020		7	*1
	1P140021	10.75		*1 1B	25	15	CP3
	1B	17	15	CP4 1P140022		15	CP1
	1P140023	19		CP1			
140017 TUNE NURCROSS LOW SECTOR (125.2)	1B	01	0	CP2 1B	02	0	CP2
	1B	03	2.9	CP1 1B	05	5	CP1
	1B	28	6.5	CP2 1B	17	6.5	CP4
	1P140024	6.5		CP1 1P140025		10.5	CP1
	1B	18	14	*3 1P140026		14	*1
	1P140027	17.5		*1 1N	07	20	CP1
	1P140043	0		CP1 1P	13	0	P2
140018 SET ALTIMETER BARO SETTING TO 29.80							
140019 CROSS TUGCOA VOR							
140020 TUNE NURCROSS VOR (116.5)	8B	06	0	CP1 8B140002		6	CP1
	5U	01	11	CP3 5U	02	11	CP3
	5U	03	14	CP2 1P140044		15	CP1
	1P	13	15	P1 5G	04	17.5	P1

140021	RECEIVE INSTRUCTIONS TO GO INTO A HOLDING PATTERN AT LANIER INTERSECTION	SH 02 1B 37 1P140029 1P140031 1B 17 1P140033	15 0 4 14.00 16 20.5	CP1 *1 1P140028 *1 1P140030 *1 1B 25 CP4 1P140032 CP1	0 9.33 16 16	*1 *1 CP3 CP1
140022	REACH 17000 FT. BEGIN 500 FT/MIN RATE OF DESCENT					
140023	REPORT 1000 FT TO LEVEL OFF	SH 02 1P 11	0 2	CP3 1P140045 P4	2	CP1
140024	REACH 12000 FT. BE- GIN DECELERATION TO 210 KIAS.					
140025	TUNE CHATIANJUGA VOR (115.8)	SH 07 SV 01 SV 03 1P 13 SH 03	0 11 13.93 16 19	CP1 3B140003 CP3 SV 02 CP1 1P140046 P1 06 05 CP1	6 11 10 19	CP1 CP2 CP1 P1
140026	REACH 210 KIAS.	SA 01	0	P3 4B 03	0	P2
140027	HOLDING PATTERN PROC -RIGHT TURNS -1 1/2 MON. LEGS -1 LOOP -INITIATE FIRST TURN OVER INTER- SECTION	3S 12 4A 06 3A 11 3S 01 3S 16 3N 03 4B 07 3S 15 1P140047 3N 02 1P 11 1P140049 3N 04 3L 03 4R 07 4A 07 4A 05 3A 11 3L 03 1P140047 1B 36 1P140035 1B 25 1P140037	060 0 0 1 1 1 1 2 2 2 3 3 3 4 4 4 4 4 5 3.27 12 12	CP1 3B140003 P2 3S 20 P1 3L 03 P3 4B 07 P4 4A 57 P1 4A 55 CP1 3A 11 P2 3L 33 P4 3N 02 CP1 1P 11 CP1 1P140048 P2 3N 02 CP1 1P 11 CP1 4A 56 P3 3A 11 P2 3S 17 P1 3S 17 P1 3N 03 P3 4B 07 P3 3N 02 CP1 1P 11 *3 1P140034 *1 1P140036 CP1 1B 17 CP1 1P140038	0 0 0 5 1 1 1 2 2 2 3 3 4 4 4 4 5 5 7.63 12 16.5	P2 P1 P3 P2 P1 P4 P3 P3 CP1 P2 CP2 CP1 P2 P1 P3 P1 P2 CP1 P2 *1 *1 CP2 CP1
140028	RECEIVE CLEARANCE TO CONTINUE DESCENT AND APPROACH	1B 36 1P140035 1B 25 1P140037	0 3.27 12 12	*3 1P140034 *1 1P140036 CP1 1B 17 CP1 1P140038	0 7.63 12 16.5	*1 *1 CP2 CP1
140029	BEGIN DESCENT. SET THRUST FLIGHT IDLE					
140030	REACH 11000 FT AT 230 KIAS					
140031	HANDOFF TO ATLANTA APPROACH CONTROL	1B 20 1P140040 1B 17	0 4 0	*1 1P140039 *1 1B 25 CP3 1P140041	0 5 5	*1 CP2 CP1
140032	ALTITUDE BARO SET PROC.	SH 04 SH 04	0 0	P3 3H 03 CP3 3H 03	0 0	P2 CP3
150001	RECEIVE INSTRUCTIONS TO DESCEND TO 31000 FT.	1R 04 1P150002 1R 09 1R 02	0 3 8 15	*3 1P150001 *1 1R 30 CP3 1P150003 1R 01 CP2 1R 03	0 5 8 13 15.93	*1 CP1 CP1 CP3 CP2

	1R	05	17.51	CP2 1R	27	19	CP1
	1R	38	19	CP1 1P140001		19	CP1
	1P140002		23	CP1 1R	33	25	*4
	1P140003		25	*1 1R	07	28	CP1
150002 USE ALT ENG MODE TO	2H	33	0	P1 2H	31	2.47	P1
ESTABLISH NEW ALTI-	2H	51	5.73	P1 2H	34	4.31	P1
TUDE WHILE IN TIME	2H	28	4.31	P1 2H	30	6.51	P1
PATH MODE	2H	42	7.29	P1 2H	36	8.97	P1
	2H	44	8.35	P1			
150003							
150004 REVISE FLIGHT PLAN	2L	65	0	CP1 2L	09	2.03	CP1
TO ESTABLISH NEW	2L	24	4.37	CP1 2L	24	5.37	CP2
FLIGHT LEVEL 310 AT	2L	09	7.19	CP2 2L	42	9.27	CP1
SPT01	2L	28	10.62	CP2 2L	26	11.47	CP3
	2L	55	13.32	CP1 2L	20	14.67	CP1
	2L	09	16.14	CP2 2L	21	18.22	CP2
	1P150012		20	CP1 1P	02	20	P2
150005 ADJUST THRUST TO FLY	2K	17	0	P1 2K	31	0	P1
AIRPLANE SYMBOL ON	48	07	0	P2 2K	24	0	P3
MFD INTO TIME BOX	2K	32	5.13	P1 2K	17	10	P1
	2K	31	10	P1 4P	07	10	P2
	2K	32	12	P1			
150006 RE-ESTABLISH TIME	2H	39	0	P1 2H	49	2.92	P1
PATH (4-D) MODE	2H	50	4.27	P1 2H	32	3.05	P1
	2H	44	5.63	P1 2H	38	2.14	P1
	2H	42	6.61	P1 2H	40	1.36	P1
150007 LEVEL OFF AT 31000							
FT							
150008 HANDOFF TO LANIER	1R	16	0	*2 1P140010		0	*1
HIGH SECTOR (132.4)	1R	14	4	CP4 1R	15	4	CP3
	1P140011		4	CP1 1R	07	9	CP3
	1R	08	6	CP4 1R	09	10.9	CP2
	1R	06	12.40	CP2 1R	27	14	CP4
	1R	15	14	CP4 1P140012		14	CP1
	1R	33	14	*4 1P140013		19	*1
	1R	07	22	CP1			
150009 BEGIN TURN TO HDG							
234 TO ACQUIRE JOLDR							
150010 TURN COMPLETE - ON							
ANY JOLDR							
150011 AGCS BEGINS PROGRAM-							
MED DESCENT TO 11000							
FT. THRUST ADJUSTED							
AUTOMATICALLY.							
150012 RECEIVE INSTRUCTIONS	1R	32	0	*2 1P150001		0	*1
FROM ATC	1P150002		4	*1 1R	25	7	CP3
	1R	37	7	CP4 1P150003		7	CP1
150013 SET ALTIMETER BARO	1P150013		0	CP1 1P	15	0	P1
SETTING TO 29.59							
150014 CROSS WPT SHINE.							
AGCS BEGIN AUTO							
TURN TO HDG 211							
150015 TURN COMPLETE - ON							
HDG 211							
150016 DESCEND THRU 20000	1P	24	0	CP4 1R	15	0	CP4
FT. REPORT TO ATC.	1P140019		0	CP1 1R	34	5	*4
HANDOFF TO NJRCROSS	1P150015		5	*1 1P150006		8	*1
LOW SECTOR (125.2)	1R	39	10	CP2 1R	39	10	CP4
	1P150017		10	CP1 1R	01	14	CP3

	1R	02	14	CP2 1R	03	16.93	CP2	
	1R	05	18.51	CP2 1R	27	20	CP1	
	1R	39	20	CP1 1P140024		20	CP1	
	1P140025		24	CP1 1R	33	27	*4	
	1P140013		27	*1 1N	07	30	CP1	
150017	CROSS WPI LANDS.							
	AGCS BEGINS PROGRAM-							
	MED TURN TO HDG 228							
150018	TURN COMPLETE - ON							
	HDG 228							
150019	LEVEL OFF AT 11000							
	FT							
150020	MONITOR AUTO LEVEL	3H	02	0	P3 2K	17	2.13	P1
	OFF WHILE IN TIME	3L	01	4.4	P1			
	PATH MODE							
150021	AGCS BEGINS PROGRAM-							
	MED DECELERATION TO							
	250 KIAS.							
150022	REACH 250 KIAS							
150023	RECEIVE INSTRUCTIONS	1R	35	0	*1 1P150009		0	*1
	TO CHANGE LAKESIDE	1P150010		4	*1 1R	30	9	CP1
	PTA TO 10:22:15	1R	39	9	CP3 1P150011		9	CP1
150024	REVISE FLIGHT PLAN	2L	65	0	CP1 2L	09	2.05	CP1
	TO CHANGE LAKESIDE	2L	24	4.37	CP1 2L	24	5.87	CP2
	PTA	2L	09	7.24	CP1 2L	36	9.53	CP1
		2L	26	10.80	CP1 2L	35	12.33	CP1
		2L	27	13.58	CP1 2L	27	15.03	CP1
		2L	25	16.58	CP3 2L	30	17.73	CP1
		2L	20	19.08	CP2 2L	09	20.59	CP1
		2L	21	22.43	CP1 1P150014		24.45	CP1
		1P	02	24.45	P3			
150025	MONITOR AIRCRAFT AND	2K	17	0	P1 2K	31	0	P1
	TIME BLX SYMBOLS ON							
	MFD AS AGCS ADJUSTS							
	SPEED TO ACQUIRE NEW							
	TIME SLOC							
150026	REACH 220 KIAS							
150027	HANDOFF TO ATLANTA	1R	16	0	*4 1P140039		0	*1
	APPROACH CONTROL	1P140040		4	*1 1R	24	6	CP4
	(126.9)	1R	40	6	CP1 1P140041		6	CP1
160001	TUNE ATLANTA	1B	07	0	CP3 1B	08	0	CP2
	APPROACH CONTROL	1B	09	2.80	CP1			
	(126.9)							
160000	TURN ON LANDING LITS							
160002	TUNE ATIS (123.7)	1A	07	0	CP3 1A	08	0	CP2
		1A	09	2.98	CP1 1A	06	5	CP1
		1A	17	6.43	CP2 1A	15	8	*3
		1P160001		8	*1 1P160002		11.42	*1
		1P160003		15.76	*1 1P160004		20.54	*1
		1P160005		25.1	*1 1P160006		29.66	*1
		1P160043		0	CP1 1P	13	0	P3
160003	SET ALTIMETER BARO							
	SETTING TO 29.84							
160004	CONTACT ATLANTA AP-	1A	06	0	CP1 1A	10	2.4	CP4
	PROACH CONTROL	1A	12	2.4	CP3 1P160007		2.4	CP1
		1P160008		6.4	CP1 1A	15	9	*4
		1N	07	12	CP1 1P160009		9	*1
160005	DESCENT AND APPROACH	1P160043		0	P1 1P	02	0	CP2
	CHECKLIST - 1	PR	02	2	CP3 1R	05	8	CP2
		40	03	13	CP1 1P160044		15	CP1

	1P	10	15	P1	1P150045	17	CP1
	1P	07	17	P4	8B	03	CP1
	1P160046		20	CP1	1P	13	P4
	7D	69	22	CP1	7D	70	24.67
	7E	08	26.59	CP1	1P160047		28
	1P	16	28	P1			
160005 DESCENT AND APPROACH	8B	03	0	CP1	1P160048	2	CP1
CHECKLIST - 2	1P	11	2	P3	7M	03	P3
	7M	04	6.54	P4	1P160049	5.5	P1
	1P	06	6.5	CP4	8B	03	9
	1P160050		11	CP1	1P	12	11
	7G	17	12	CP2	1P150051	14.2	CP1
	1P	16	14.2	P2	8B	03	14.5
	1P160052		16.5	CP1	1P	12	16.5
	3H	02	18	CP4	3H	05	20.37
	1P160053		23.4	CP1	1P	04	23.49
160007 DESCENT AND APPROACH	8B	03	0	CP1	1P160054	2	CP1
CHECKLIST - 3	1P	02	2	P1	8P010004	2	CP1
	3B160051		5	CP1	7F	26	10
	7F	27	10.32	CP1	7F	28	12.32
	7F	29	12.04	CP1	8B160002	15	CP1
	3A	07	20	CP2	3A	05	20
	1P160055		20	CP1	1P	14	20
	3A	07	22	P2	3A	05	22
	3A	12	25	P1	3A	13	25
	1P160056		28	CP1	1P	08	28
	8B	03	29.6	CP1	1P160057	31.6	CP1
	1P	02	31.6	P4	8B	06	31.6
	8B010005		34.6	CP1			
160008 CROSS MERGROSS VDP.	15	10	0	*3	1P160010	0	*1
RECEIVE INSTRUCTIONS	1P160011		4	*1	1B	25	6
TO TURN TO HDG 210	1B	17	6	CP2	1P160012	6	CP1
AND TO SLOW TO 200							
KIAS							
160009 TURN TO HDG 210 AND							
SLOW TO 200 KIAS							
160010 TURN COMPLETE - ON							
HDG 210							
160011 SET FLAPS TO FLAPS 1	1P160058		0	P1	1P	10	0
	4E	07	1	CP1	4E	15	2.69
	4N	03	2.59	CP2	4N	04	4
	1P160059		5	CP1	1P	10	5
	1B	03	6	P1	7F	25	7
	7F	30	7	P3			
	4B	07	0	P2			
160012 REACH 200 KIAS	8B	06	0	CP1	3B160003	6	CP1
160013 SET NAV-0 TO RUNWAY	5U	01	11	CP3	5U	02	11
08 ILS (109.4)	5U	03	14	CP2	1P160059	16.5	CP1
	1P	12	16.5	P1	5G	04	19
	5H	02	16.5	CP1			
160014 SET NAV-2 TO REG VDP	5V	01	0	CP3	5V	02	0
(111.3)	5V	03	2.93	CP1	1P160060	5	CP1
	1P	02	5	P2	5G	05	7
	5H	03	5	CP1			
160015 RECEIVE INSTRUCTIONS	1B	07	0	*2	1P160014	0	*1
TO SLOW TO 190 KIAS	1B	14	4	CP2	1B	15	4
	1P160015		4	CP1			
160016 REDUCE SPEED	4B	07	0	P1			
160017 SET FLAPS TO FLAPS 5	1P160001		0	P1	4E	09	4

160018 FLAP SET PROCEDURE	1P1600161	5	CP1			
	1P 10	0	CP2 4E 15	2.69	CP3	
	4N 03	2.09	CP2 4N 04	4	CP2	
	1P 10	5	P2 18 03	0	P1	
	7F 25	7	P4 7F 30	7	P3	
160019 HANDOFF TO APPROACH CONTROL (127.25)	1B 20	0	*1 1P160016	0	*1	
	1P160017	4	*1 1B 26	5	CP2	
	1B 32	0	CP2 1P160018	10	CP1	
	1B 01	10	CP2 1B 02	10	CP2	
	1B 03	12.38	CP1 1B 05	15	CP1	
	1B 20	16.5	CP4 1B 32	16.5	CP1	
	1P160019	16.5	CP1 1P160020	20	CP1	
	1B 19	22	*4 1P160021	22	*1	
	1N 07	26	CP1			
160020 RECEIVE INSTRUCTIONS TO TURN TO HDG 270, REDUCE SPEED TO 170, AND TO DESCEND TO 4500 FT.	1B 19	0	*2 1P160022	0	*1	
	1P160023	4	*1 1B 25	8	CP3	
	1B 17	8	CP4 1P160024	8	CP1	
	1P160025	12	CP1			
160021 BEGIN TURN TO HDG 270						
160022 TURN COMPLETE - ON HDG 270. BEGIN DECELERATION TO 170.	4B 07	0	5 P2			
160023 REACH 170 KIAS						
160024 BEGIN DESCENT TO 4500 FT.						
160025 SET FLAPS TO FLAPS 15	1P160062	0	P1 4E 11	1	CP3	
	1P160062	5	CP1			
160026 LEVEL OFF AT 4500 FT						
160027 RECEIVE INSTRUCTIONS TO SLOW TO 160 KIAS.	1B 37	0	*2 1P150063	0	*1	
	1B 14	4	CP2 1B 15	4	CP2	
	1P160064	4	CP1			
160028 REDUCE THRUST	4B 07	0	5 P2			
160029 REACH 160 KIAS	4B 07	0	5 P2			
160030 RECEIVE INSTRUCTIONS TO TURN TO HDG 180	1B 19	0	*4 1P150026	0	*1	
	1B 26	4	CP2 1B 32	4	CP2	
	1P160027	4	CP1			
160031 TURN TO HDG 180						
160032 TURN COMPLETE - ON HDG 180						
160033 RECEIVE FINAL APPROACH INSTRUCTION	1B 37	0	*3 1P150028	0	*1	
	1P160029	3.21	*1 1P160030	7.49	*1	
	1P160031	11.77	*1 1B 26	15	CP1	
	1B 17	15	CP1 1P160032	15	CP1	
	1P160033	19	CP1			
160034 TUNE ATLANTA TOWER (119.5)	1B 07	0	CP3 1B 08	0	CP2	
	1B 09	2.80	CP1			
160035 BEGIN TURN TO HDG 120						
160036 TURN COMPLETE - ON HDG 120						
160037 CAPTURE ILS LOCALIZER. BEGIN TURN TO HDG 090.	3R 09	0	CP1 1P150067	2.6	CP1	
	1P 02	2.6	P4 3R 10	9	P3	
	3S 04	9	P3 4A 26	9	P2	
	3R 10	19	P3 3S 04	19	P3	
	4A 28	19	P2 3R 01	4	P1	
	1P150068	6	P1 1P 02	6	CP2	
	3S 11	6	P2 3V 06	0	P1	



160038	SET DECISION HEIGHT ON RADIO ALTIMETER							
160039	SET ADF-1 TO LAKE- SIDE (375)	5D 17	0	CP3 5D 22	4	CP1		
		5D 01	3	CP2 5D 02	3	CP3		
		1P160005	5	CP1 1P 02	5	P1		
160040	SET ADF-2 TO LAKE- SIDE (375)	5E 17	0	CP2 5E 01	3	CP2		
		5E 02	3	CP3 5E 20	3	CP1		
		1P160060	5	CP1 1P 02	5	P1		
160041	MON VOR/RMI-1	5G 04	0	P2 5G 05	0	P2		
160042	MON ADF/RMI-1	5D 28	0	P2 5D 29	3	P2		
160043	TUNE NAV-1 TO RWY 08 ILS (109.9)	5U 01	0	CP3 5U 02	0	CP3		
		5U 03	3	CP2 1P160069	5	CP1		
		1P 02	5	P1 3R 49	6.5	P1		
160044	TURN COMPLETE - ON HDG. J90 (RAT 08 HDG)							
160045	ANNUNCIATOR RECALL	7A 28	0	CP1 7A 36	2.28	CP1		
160046	CONTROL AIRCRAFT ON FINAL APPROACH - A	3R 16	0	P3 3S 04	0	P3		
		4A 30	0	P2				
160047	MON INSTRUMENTS ON FINAL APPROACH - CP	3R 16	0	CP3 3S 04	0	CP3		
160048	MON ADF/RMI-2	5E 26	0	CP1				
160049	MON RADIO ALTIMETER	3J 01	0	CP1				
160050	RECEIVE INSTRUCTIONS TO SLOW TO 150	1B 19	0	*4 1P160034	0	*1		
		1B 14	4	CP2 1B 15	4	CP2		
		1P160035	4	CP1				
160051	REDUCE SPEED TO 150 KIAS	4B 07	0	P2 3A 01	0	P1		
160052	REACH 150 KIAS	3A 01	0	P1 4B 07	0	P2		
160053	SET FLAPS TO FLAPS 25	1P160077	0	P1 4E 12	1	CP1		
		1P160070	5	CP1				
160054	ACQUIRE GLIDE SLOPE	3R 00	0	P1 3R 60	0	CP1		
		1P160071	2.6	CP1 1P 10	2.5	P1		
		3V 00	0	P1				
160055	RECEIVE INSTRUCTIONS TO MAINTAIN CURRENT SPEED	1B 18	0	*4 1P160036	0	*1		
		1B 14	0	CP4 1B 20	6	CP3		
		1P160037	8	CP1				
160056	CROSS STOBBS (REG VOR). BEGIN DECELER- ATION TO 135 KIAS.	1P160072	0	CP1 1P 10	0	CP1		
		4B 07	1	CP2 3A 01	1	CP1		
160057	SET FLAPS TO FLAPS 40	1P160073	0	P1 4E 14	1	CP1		
		1P160073	5	CP1				
160058	REPORT RUNWAY IN SIGHT	3A160001	0	CP1 1P160074	2	CP1		
		1P 10	2	P1				
160059	CROSS RWY 08 OUTER MARKER	3V 11	0	P1 1P160075	2	P1		
		1P 13	2	CP4				
160060	EXTEND LANDING GEAR	4D 03	0	CP3 4D 05	3	CP2		
		4D 09	5.5	CP3				
160061	CONTACT TOWER FOR FINAL LANDING CLEAR- ANCE	1B 05	0	CP4 1B 25	2.4	CP1		
		1B 17	2.4	CP2 1P160038	0.4	CP1		
		1B 19	9	*2 1P160040	9	*1		
		1P160041	13	*1 1B 24	16	CP1		
		1B 15	10	CP4 1P160037	10	CP1		
160062	LANDING CHECKLIST	33040001	0	CP1 1P160076	2	CP1		
		1P 10	2	P4 1P160077	2.0	CP1		
		1P 14	2.6	P2 08040001	3	CP1		
		1P160078	5	CP1 1P 10	5	P2		
		1P160079	6	P1 1P 02	5	CP4		
		33040001	7.5	CP1 1P160080	9.5	CP1		
		1P 10	9.5	P2 1P160081	10.2	CP1		

	1P	10	10.2	P1	38090001	11.2	CP1
	1P160082		13.2	CP1	1P 14	13.2	P2
	1P160083		13.6	CP1	1P 12	13.6	P4
	38090001		14.1	CP1	1P160084	16.1	CP1
	1P 12		16.1	P4			
160063 DESCEND THRU 1500 FT (500 FT ABOVE RWY)	1P160085		0	CP1	1P 14	0	P3
160064 CROSS RWY 06 MIDDLE MARKER	3V 13		0	P1	3V 13	0	CP1
160065 DESCEND THRU 1200 FT (DECISION HEIGHT)	3R 12		0	CP3	1P160086	2.23	CP1
	1P 11	2.28		P2			
160066 CONTROL AIRCRAFT THRU TOUCHDOWN	3A 06	0		P3	4A 08	0	P1
160067 CROSS END OF RWY 08							
160068 TOUCHDOWN	4B 06	0		P1	4A 08	0	P2
	4C 01	2.5		P2	4C 02	24	P1
	4D 28	2 04		P2	4H 03	1 29	P1
	0A 00	0		P4			
160069 SET SPEED BRAKES	4F 02	01010		P3	4F 07	01010	P2
160070 SET AUTO BRAKES	4G 43	01010		P1	4D 40	01010	P1
160071 HANDOFF TO GROUND CONTROL (121.4)	1B 18	0		*3	1P160087	0	*1
	1P160088	3.5		*1	1B 14	6	CP2
	1B 15	0		CP2	1P160089	0	CP1
	1B 01	9		CP3	1B 02	9	CP2
	1B 03	11.88		CP1	1B 05	14	CP1
	1B 29	15.50		CP2	1B 16	15.5	CP1
	1P160090	15.5		CP1	1B 18	20	*4
	1P160091	20		*4	1P160092	23.5	*1
	1B 29	25		CP1	1B 15	25	CP4
	1P160097	25		CP1			
160072 CONTROL AIRCRAFT ON FINAL APPROACH - B	3K 16	0		P4	3S 04	0	3 P4
	4A 03	0		P1			
160073 ADVISE APPROACH CONTROLS OF PILOT INCAPACITATION	1B 26	0		CP3	1B 32	0	CP3
	1P160091	0		CP1	1P160092	3	CP1
	1P160093	7		CP1	1B 19	12	CP1
	1P160094	12		CP1	1P160095	15	CP1
	1P160096	19		CP1			
160074 CONTROL AIRCRAFT - A1	4A 14	0		CP2	3A 05	0	CP1
	3K 10	0		CP4	3S 01	0	CP2
	3L 02	0		CP1	3A 10	0	CP1
160075 COMPLETE TURN. BEGIN DECELERATION.	4H 07	0 3 50		CP1			
160076 REACH 170 KIAS. SET THRUST TO FLIGHT IDLE.							
160077 BEGIN DESCENT TO 4500 FT.							
160078 ALTITUDE CHANGE PROCEDURE - A	4A 29	0		CP2	3L 02	0	CP1
	3H 02	0		CP1	3K 10	0	CP4
	4B 07	0		CP1	3P 01	0	CP3
160079 SET FLAPS 15	4E 11	01010		CP4			
160080 FLAP SET PROC. - A	4E 15	31010		CP3	4H 05	5.23	CP1
	4A 05	6.4		CP1	4H 04	6.45	CP1
160081 CONTROL AIRCRAFT - F1	4A 05	0		CP3	3A 06	0	CP2
	3R 07	0		CP1	3S 15	0	CP3
	3L 03	0		CP2	3A 11	0	CP2
160082 CONTROL AIRCRAFT - D1	4A 05	0		CP1	3A 05	0	CP4
	3K 05	0		CP3	3S 15	0	CP1
	3L 02	0		CP4	3A 10	0	CP4

16EK11	LEVEL OFF AT 4000 FT							
16EK12	CONTROL AIRCRAFT	4A	04	0	CP4 8A	05	1	CP3
		3R	04	0	CP2 3S	01	0	CP4
		3L	02	0	CP3 3A	10	0	CP3
16EK13	REDUCE THRUST	4B	07	0	5 SCP1			
16EK14	REACH 150 KIAS	4B	07	0	5 SCP1			
16EK15	MON VOR/RMI-2	5H	02	0	5 SCP3 5H	03	0	5 SCP3
16EK16	MON ADF/RMI-2	5E	26	0	5 SCP2 5E	27	0	5 SCP2
16EK17	BEGIN TURN TO HDG 150							
16EK18	HEADING CHANGE PROC-	3S	01	0	CP2 4A	28	0	CP2
	A	3L	02	0	CP1 3S	11	0	CP2
		3K	5R	0	CP1			
16EK19	TURN COMPLETED - ON HDG 160.							
16EK20	CONTROL AIRCRAFT -B1	4A	04	0	CP3 8A	05	0	CP2
		3R	04	0	CP1 3L	02	0	CP2
		3A	10	0	CP2 3S	01	0	CP3
16EK21	BEGIN TURN TO HDG 120							
16EK22	TURN COMPLETED - ON HDG 120							
16EK23	CAPTURE ILS LOCALI-	3R	09	0	5 SCP1 3K	16	0	CP3
	ZER. BEGIN TURN TO	3S	04	0	CP3 4A	28	0	CP2
	HDG 090.	3K	16	10	CP3 3S	04	10	CP3
		4A	28	10	CP2 3S	11	0	CP2
		3V	06	0	CP1			
16EK24	TURN COMPLETED - ON HDG 090 (RWY 08 HDG)							
16EK25	CONTROL AIRCRAFT ON	3R	16	0	CP3 3S	04	0	CP3
	FINAL APPROACH - A1	4A	30	0	CP2 8A	03	0	CP2
16EK26	CONTROL AIRCRAFT ON	3R	16	0	CP4 3S	04	0	CP4
	FINAL APPROACH - B1	4A	30	0	CP4 8A	03	0	CP3
16EK27	REDUCE SPEED TO 150 KIAS.	4B	07	0	5 SCP1			
16EK28	REACH 150 KIAS	4B	07	0	5 SCP1			
16EK29	SET FLAPS 20	4E	12	0	10 SCP1			
16EK30	ACQUIRE GLIDE SLOPE	3V	09	0	5 SCP1 3R	00	0	5 SCP1
16EK31	CROSS STUBBS. BEGIN DECLINATION TO 150 KIAS.	4B	07	0	5 SCP1			
16EK32	SET FLAPS 40	4F	14	0	10 SCP1			
16EK33	CROSS OUTER MARKER	3V	11	0	CP1			
16EK34	SET SPEED BRAKES	4F	02	0	10 SCP2			
		4F	07	4	10 SCP3			
16EK35	LANDING CHECKLIST -	08090001		0	CP1 1P160076		2	CP1
	PILOT INCAPACITATED	1P160077		2.6	CP1 30090001		3	CP1
		1P160078		5	CP1 1P160079		5.7	CP1
		08090001		7	CP1 1P160090		9	CP1
		1P160081		9.7	CP1 08090001		13.7	CP1
		1P160082		14.1	CP1 1P160083		14.1	CP1
		08090001		15.2	CP1 1P160084		17.2	CP1
16EK36	CROSS MIDDLE MARKER	3V	13	0	CP1			
16EK37	DESCEND THRU 1200 FT - DECISION HEIGHT	3R	12	0	CP1			
16EK38	CONTROL AIRCRAFT THRU TOUCHDOWN	8A	03	0	CP4 4A	66	0	CP1
16EK39	CROSS END OF RUNWAY							
16EK40	TOUCHDOWN AND ROLL	4B	08	0	CP2 4A	06	0	CP2

OUT	40	01	2.5	CP3 40	02	24	CP2
	40	25	50	CP3 4M	03	90	CP1
	5A	07	0	CP1			
16FK41							
16FK42							
16FK43							
16FK44							
16FK45							
16FK46							
16FK47							
16FK48							
16FK49							
16EK50 ADVISE ATC OF PILOT INCAPACITATION	1R 30 1P16EK01 1P16EK03 1P16EK04 1P16EK06	0 0 11 11 16	0 0 11 11 16	CP4 1R 40 CP1 1P16EK02 CP1 1R 35 CP1 1P16EK05 CP1	0 3 11 14 0	0 3 11 14 0	CP3 CP1 CP2 CP1 CP1
16EK51 MONITOR AUTO HEADING CHANGE	2K 14 2K 47	0 0	0 0	CP2 2K 33 CP1 2K 52	0 0	0 0	CP1 CP1
16EK52 SET FUEL FOR ILS APPROACH	2J 31 2J 13	0 4.62	0 0	CP3 2J 25 CP1	2.15	0	CP2 CP1
16EK53 FLIGHT INSTRUMENT SCAN - 0	2J 02 3A 13 2K 46	0 0 0	0 0 0	CP2 3L 02 CP1 2K 14 CP1	0 0 0	0 0 0	CP1 CP2 CP1
16EK54 CAPTURE ILS LOCALI- ZER	2K 09	0	0	CP1			
16EK55 CROSS STUBBS. AGCS BEGINS PROGRAMMED DECELERATION TO 150 KIAS							
16EK56 SET AGCS TO AUTO LAND MODE - A	2H 10 2H 51	0 3.16	0 0	CP2 2H 11 CP1 2J 13	2.13 3.90	0 0	CP1 CP1
16EK57 CROSS MIDDLE MARKER	3V 13	0	0	CP1			
16EK58 DESCEND THRU DECI- SION HEIGHT	2J 22	0	0	CP1			
16EK59 DISENGAGE AGCS - A	2H 10 2H 01 2H 39 4A 14	0 3.18 5.67 10	0 0 0 0	CP2 2H 13 CP3 2H 02 CP1 4A 54 CP3	2.13 4.62 0 0	0 0 0 0	CP1 CP1 CP2 CP3
170001 RECEIVE INSTRUCTIONS TO SLOW TO 200 KIAS	1B 37 1B 26 1P170002	0 4 4	0 4 0	*2 1P170001 CP2 1B 32 CP1 P2	0 4 0 0	0 4 0 0	*1 CP2 CP1 CP2
170002 ADJUST THRUST	4B 07	0	0				
170003 REACH 210 KIAS							
170004 REACH 200 KIAS							
170005 CROSS MIDDLE MARKER RECEIVE INSTRUCTIONS TO TURN TO HDG 210	1B 37 1B 24 1P170004	0 4 4	0 4 0	*4 1P170003 CP2 1B 16 CP1	0 4 0	0 4 0	*1 CP4 CP1
170006 TURN COMPLETED - ON HDG 210							
170007 TUNE NAV RADIOS FOR MLS APPROACH.	5B 06 5U 01 5U 03 5V 02 1P170006 5G 04 5H 02	0 11 14 44 49 52 49	0 11 14 44 49 52 49	CP1 5B160005 CP3 5U 02 CP3 5V 01 CP2 5V 03 CP1 1P 02 P1 5G 05 CP1 5H 03	0 11 44 49 49 52 49	0 11 44 49 49 52 49	CP1 CP3 CP3 CP1 P3 P1 CP1
170008 RECEIVE INSTRUCTIONS	1B 19	0	0	*2 1P170005	0	0	*1

TO TURN, REDUCE SPD,	1P170006	3.5	*1 1B	26	7	CP4
AND DESCEND.	1B 32	7	CP4 1P170007		7	CP1
	1P170008	11	CP1			
170009 BEGIN TURN TO HDG	270					
170010 TURN COMPLETED - ON	43 07	0	P2			
HDG 270. BEGIN DE-						
CCELERATION						
170011 REACH 190 KIAS						
170012 REACH 180 KIAS.						
BEGIN DESCENT TO						
6000 FT						
170013 LEVEL OFF AT 6000 FT						
170014 MLS ACQUISITION	3R 59	0	CP1 1P160067	2.5		CP1
	1P 02	2.5	P4			
170015 RECEIVE INSTRUCTIONS	13 16	0	*3 1P170009	0		*1
TO TURN TO HDG 180,	19 25	0	CP2 1B 17	6		CP3
DESCEND TO 5500 FT.	1P170011	6	CP1 1P170012	9.5		CP1
170016 BEGIN TURN TO HDG						
180 AND DESCENT TO						
3600 FT.						
170017 TURN COMPLETED - ON						
HDG 180						
170018 LEVEL OFF AT 3600 FT						
170019 RECEIVE INSTRUCTIONS	18 18	0	*4 1P170013	0		*1
TO REDUCE SPEED TO	18 26	4	CP2 1B 32	4		CP2
160 KIAS	1P170014	4	CP1			
170020 REACH 170 KIAS						
170021 RECEIVE FINAL CLEAR-	18 19	0	*4 1P170015	0		*1
ANCE	1P170016	3	*1 1P170017	7		*1
	18 25	10	CP1 1B 17	10		CP2
	1P170018	10	CP1 1P170019	14		CP1
	18 07	15	CP3 1B 06	15		CP2
	18 09	17.88	CP1			
170022 BEGIN RUNWAY OR	3R 16	0	P3 3S 04	0		P3
CENTERLINE ACQUISITION	4A 28	0	P2 3K 11	5		P2
TURN	3R 16	10	P3 3S 04	10		P3
	4A 28	10	P2 3K 16	20		P3
	3S 04	20	P3 4A 26	20		P2
	3R 16	30	P3 3S 04	30		P3
	4A 28	30	P2 3K 16	40		P3
	3S 04	40	P3 4A 28	40		P2
170023 RECEIVE INSTRUCTIONS	18 32	0	*1 1P170020	0		*1
TO MAINTAIN SPEED	1P170021	3.5	*1 1B 14	4.5		CP4
	1B 15	4.5	CP4 1P160037	4.5		CP1
170024 TURN COMPLETED -						
170025 CROSS APPROACH GATE.	4B 07	0	P1			
BEGIN DECELERATION.						
170026 CONTACT TOWER	1B 06	0	CP4 1B 28	2.39		CP1
	1B 17	2.39	CP2 1P170022	2.39		CP1
	1P170023	6.39	CP1 1B 19	6		*2
	1P170024	6	*1 1P170025	11.50		*1
170027 BEGIN 6 DEG FIRST						
SEGMENT MLS APPROCH						
DESCENT						
170028 REACH 135 KIAS						
170029 BEGIN TRANSITION TO						
3 DEG SECOND SEGMENT						
MLS APPROCH DESCENT						

170030	COMPLETE TRANSITION						
170031	CONTROL AIRCRAFT ON	3R	01	0	P1 3S	17	0 P3
	FINAL APPROACH	4A	09	0	P1		
17EK01	ADVISE APPROACH CON-	1R	26	0	CP3 1R	32	0 CP3
	TROL OF PILOT INCA-	1P10EK01		0	CP1 1P10EK07		3 CP4
	PACITATION	1P10EK03		7	CP1 1R	19	12 CP4
		1P10EK04		12	CP1 1P10EK08		15 CP1
		1P10EK06		19	CP1		
17EK02	MLS ACQUISITION						
17EK03	BEGIN TURN TO HDG						
	180 AND DESCENT TO						
	3600 FT						
17EK04	TURN COMPLETED - ON						
	HDG 180						
17EK05	LEVEL OFF AT 3600 FT						
17EK06	REACH 170 KIAS						
17EK07	BEGIN RUNWAY CENTER-	3R	18	0	CP3 3S	04	0 CP3
	LINE ACQUISITION	4A	28	0	CP2 3S	11	0 CP3
	TURN	3R	10	10	CP3 3S	04	10 CP3
		4A	20	10	CP2 3R	10	20 CP3
		3S	04	20	CP3 4A	28	20 CP2
		3P	15	30	CP3 3S	04	30 CP3
		4A	25	30	CP2 3R	10	40 CP3
		3S	04	40	CP3 4A	28	40 CP2
17EK08	TURN COMPLETED						
17EK09	CONTROL AIRCRAFT ON	3R	01	0	CP1 3S	17	0 CP3
	FINAL APPROACH - X	4A	09	0	CP1		
17EK10	CROSS APPROACH GATE.	4R	17	0	CP1		
	BEGIN DECELERATION.						
17EK11	BEGIN 6 DEG FIRST						
	SEGMENT MLS APPROACH						
	DESCENT						
17EK12	REACH 130 KIAS						
17EK13	BEGIN TRANSITION TO						
	3 DEG SECOND SEGMENT						
	MLS APPROACH DESCENT						
17EK14	COMPLETE TRANSITION						
17EK15	500 FT ABOVE RUNWAY						
17EK16	CROSS END OF RUNWAY						
17EK17	TOUCHDOWN						
180001	TUNE ATLANTA	1R	07	0	CP3 1R	06	0 CP4
	APPROACH CONTROL	1R	09	2.9	CP2		
	(126.9)						
180002	TUNE ATIS (123.7)	1R	07	0	CP4 1R	06	0 CP4
		1R	09	2.97	CP2 1R	06	4.94 CP2
		1R	11	6.34	CP2 1R	30	9 *3
		1P100001	9		*1 1P100002	12.42	*1
		1P100002	16.48		*1 1P100004	21.04	*1
		1P100003	20.1		*1 1P	06	30.05 *1
180003							
180004	SET NAV-3 TO ATLANTA	0Y	01	0	CP3 0Y	02	0 CP2
	VOR (115.0)	0Y	03	3.12	CP2 0Y	05	4.7 CP1
180005	CROSS REF STAROL.						
	AGCS BEGINS PROGRAM-						
	MED TURN TO HDG 220						
	AND DECELERATION TO						
	200 KIAS						
180006	TURN COMPLETED - ON						
	HDG 220						

180007	REACH 210 KIAS							
180008	REACH 200 KIAS							
180009	HANDOFF TO APPROACH CONTROL (127.25)	1K 16	0	*4 1P160016	0	*1		
		1P160017	4	*1 1R 25	5	CP3		
		1R 37	5	CP4 1P160018	5	CP1		
		1R 01	8	CP3 1R 02	8	CP2		
		1K 03	10.93	CP2 1R 05	12.51	CP1		
		1R 28	14	CP1 1R 40	14	CP2		
		1P160019	14	CP1 1P160020	17.5	CP1		
		1K 10	18.5	*2 1P160021	18.5	*1		
		1N 07	22	CP1				
180010	CROSS WPT STAR02. AGCS BEGINS PROGRAM- MED TURN TO HDG 270 AND DECELERATION TO 170 KIAS							
180011	TURN COMPLETED - ON HDG 270.							
180012	REACH 170 KIAS. AGCS BEGINS PROGRAMMED DESCENT TO 4500 FT.							
180013	SET NAV-1 TO RWY 08	5W 01	0	CP3 5W 02	0	CP2		
	ILS (109.9)	5W 03	2.37	CP2				
180014	SET NAV-2 TO RWY 08	5X 01	0	CP3 5X 02	0	CP2		
	ILS (109.9)	5X 03	2.95	CP2				
180015	SET NAV-3 TO RWY 08	5Y 01	0	CP3 5Y 02	0	CP2		
	ILS (109.9)	5Y 03	3.12	CP2				
180016	DESCEND THRU 10000 FT	7G 17	0	CP2				
180017	LEVEL OFF AT 4500 FT							
180018	SET DECISION HEIGHT 2J ON GADI	2J 20	0	CP1 2J 21	0	CP2		
180019	AGCS BEGINS PROGRAM- MED DECELERATION TO 160 KIAS							
180020	REACH 160 KIAS							
180021	AGCS BEGINS PROGRAM- MED TURN TO HDG 160							
180022	TURN COMPLETED - ON HDG 160.							
180023	RECEIVE INSTRUCTIONS FROM ATC	1R 16	0	*1 1P130004	0	*1		
		1P180005	4	*1 1R 24	6	CP4		
		1R 15	6	CP4 1P180006	6	CP1		
		1R 07	10	CP3 1R 08	10	CP4		
		1R 09	12.9	CP2				
180024	AGCS BEGINS PROGRAM- MED TURN TO HDG 120							
180025	TURN COMPLETED - ON HDG 120							
180026	AGCS BEGINS PROGRAM- MED TURN TO HDG 090							
180027	CAPTURE ILS LOCALI- ZER	2J 09	0	CP1 1P160067	2	CP1		
		1P 02	2	P4				
180028	TURN COMPLETED - ON HDG 090 (RWY 08 HDG)							
180029	AGCS BEGINS PROGRAM- MED DECELERATION TO 150 KIAS							
180030	REACH 150 KIAS							

180031	ACQUIRE GLIDE SLOPE						
180032	CROSS STUBBS. AGCS BEGINS PROGRAMMED DECELERATION TO 135 KIAS	1P100072	0	CP1 1P	10	0	P1
180033	SET AGCS TO AUTO LAND MODE	2H 10	0	P1 2H	11	2.13	P1
		2H 11	3.16	P1 2J	13	3.96	P1
180034	CONTACT TOWER FOR FINAL LANDING CLEAR- ANCE.	1R 06	0	CP3 1R	26	2	CP2
		1R 38	2	CP3 1P100038		2	CP1
		1P100039	0	CP1 1R	32	0	*4
		1P100040	3	*1 1P100041		12	*1
		1R 27	15	CP2 1R	36	15	CP4
		1P100037	15	CP1			
180035	CROSS END OF RUNWAY TOUCHDOWN AND ROLL- OUT - AGCS AUTO LAND MODE CONTROLS AIR- CRAFT UNTIL 30 KNOTS						
180037	DISENGAGE AGCS	2H 10	0	P1 2H	13	2.13	P1
		2H 01	3.18	P2 2H	02	4.02	P1
		2H 09	5.07	P1 4A	04	0	P2
		4A 04	10	P3			
180038	HANDOFF TO GROUND CONTROL (121.9)	1R 32	0	*2 1P100037		0	*1
		1P100060	3.5	*1 1R	23	0	CP3
		1R 36	0	CP2 1P100069		0	CP1
		1R 01	9	CP3 1R	02	9	CP2
		1R 05	11.93	CP2 1R	02	13.51	CP2
		1R 14	15	CP4 1R	15	15	CP3
		1P100090	15	CP1 1R	34	19	*4
		1P100091	19	*1 1P100092		22.50	*1
		1R 27	24	CP2 1R	30	24	CP4
		1P100037	24	CP1			
180039	SET EADI FOR ILS APPROACH	2J 31	0	P2 2J	25	2.15	P1
		2J 13	4.02	P1			
180040							
180041							
180042							
180043							
180044							
180045							
180046							
180047							
180048							
180049							
180050	REACH 190 KIAS						
180051	REACH 160 KIAS. AGCS BEGINS PROGRAMMED DESCENT TO 6000 FT						
180052	DESCEND THRU 10000 FT	7G 17	0	CP2			
180053	LEVEL OFF AT 6000 FT						
180054	SET NAV-1 TO RWY 08 MLS	5W 01	0	CP3 5W	02	0	CP2
		5W 03	2.37	CP2			
180055	SET NAV-2 TO RWY 05 MLS	5X 01	0	CP3 5X	02	0	CP2
		5X 03	2.45	CP2			
180056	SET NAV-3 TO RWY 06 MLS	5Y 01	0	CP3 5Y	02	0	CP2
		5Y 03	3.12	CP2			
180057	CROSS WPT STAROS. AGCS BEGINS PROGRAM-						



MED TURN TO HDG 180  
AND DESCENT TO 3600  
FT

180058 TURN COMPLETED - ON  
HDG 180

180059 LEVEL OFF AT 3600FT  
AGCS BEGINS PROGRAM-  
MED DECELERATION TO  
160 KIAS

180060 REACH 170 KIAS

180061 REACH 160 KIAS

180062 AGCS BEGINS PROGRAM-  
MED TURN TO HDG 090.

180063 TURN COMPLETED - ON  
HDG 090. CROSS WPT  
STAR04 (LAKESIDE)  
AGCS BEGINS PROGRAM-  
MED DECELERATION TO  
135 KIAS.

180064 HANDOFF TO ATLANTA  
TOWER (119.5)

1R	34	0	*4	1P180001	0	*1
1P180002	4		*1	1R 15	5	CP2
1K	40	5	CP4	1P180003	5	CP1
1P180004	9		CP1	1R 37	11	CP3
1R	08	11	CP4	1R 09	13.9	CP2
1P	16	15.48	CP2	1R 28	17	CP2
1R	38	17	CP3	1P160038	17	CP1
1P160039	22		CP1	1R 32	22	*4
1P150040	22		*1	1P150041	26	*1

180065 BEGIN 0 DEG FIRST  
SEGMENT MLS APPROACH  
DESCENT.

180066 REACH 135 KIAS

180067 TRANSITION TO 3 DEG  
SECOND SEGMENT MLS  
APPROACH DESCENT

180068 TRANSITION COMPLETE.  
REACH 130 KIAS.

180069 CROSS END OF Rwy 06  
(WPT STAR05)

200001 SHUTDOWN PROCEDURE-1

4B	08	0	P1	4D	27	2.5	P1
4D	29	5.64	P3	7L	01	5.09	P1
7L	02	7.98	P1	70	25	10.07	P1
7M	08	10.7	P3	7M	10	14.24	P2
7F	31	15.98	P1	7F	32	18	P2
7F	33	18.44	P2	7F	34	18.88	P2
7G	06	19.32	P1	7C	25	21.03	P1
7C	27	22.40	P1	7C	31	23.93	P1
7C	35	25.38	P1	7C	39	26.83	P1
7C	43	28.28	P2				

200002 SHUTDOWN PROCEDURE-2

7B	71	0	P2	7G	34	1.8	P1
7K	08	3.7	P1	7K	12	7.92	P1
7J	25	9.06	P3	7J	27	11.9	P1
7J	29	13.03	P1	7J	31	14.16	P1
7J	33	14.16	P1	7J	35	15.3	P1
7J	03	16.44	P3	7J	09	18.23	P4
7J	11	19.73	P4				

200003 SHUTDOWN PROCEDURE-3

7A	06	0	P3	7A	08	1.46	P3
7A	11	2.92	P1	7A	13	3.47	P1
7D	03	4.02	P2	7D	32	6.72	P3

7D	20	6.25	P2 7D	21	10.25	P1
7D	15	11.25	P2 7D	17	14.31	P2
7D	27	14.31	P2 7G	26	15.84	P1
4D	41	21.76	P2 1F	07	24.36	P1
1F	06	26.82	P3 1H	01	28.31	P1
1F	09	33	P3 1P200040		33	P1
1B	29	35	P4 1F	11	35	P3
1P200041		35	P1 1F	09	38	*1
1P200042		36	*1 40	51	39	P1
7G	01	41	P1 7H	14	43.65	P1
7H	11	45.06	P1 1P200005		47	P1
1P	10	47	CP3			
200005 SHUTDOWN CHECKLIST-1	08	02	0	CP1 3E	03	4
1P200006		0	CP1 1P	10	0	P2
7C	71	6.7	P1 1P200007		6.3	P1
1P	07	8.3	CP4 3B	03	9.1	CP1
1P200008		11.1	CP1 1P	11	11.1	P3
7B	94	12	P1 1P200009		13.44	P1
1P	06	13.44	CP4 3B	03	14	CP1
1P200010		16	CP1 1P	10	16	CP1
1P200011		17	P1 1P	07	17	CP2
200006 SHUTDOWN CHECKLIST-2	08	03	0	CP1 1P200012		2
1P	12	2	P4 7G	49	3.1	P1
1P200009		4.38	P1 1P	06	4.38	CP4
08	03	5	CP1 1P200013		7	CP1
1P	10	7	P3 7G	50	8.2	P1
1P200009		9.5	P1 1P	06	9.5	CP4
08	03	10	CP1 1P200014		12	CP1
1P	10	12	P1 7K	12	13	P1
1P200009		14.2	P1 1P	06	14.2	CP4
200007 SHUTDOWN CHECKLIST-3	08	03	0	CP1 1P200015		2
1P	10	2	P1 7J	47	3	P1
7J	48	4.47	P1 1P200009		5.22	P1
1P	06	5.22	CP4 3B	03	5.72	CP1
1P200016		7.72	CP1 1P	10	7.72	P3
7J	49	8.92	P1 7J	50	10.34	P1
1P200009		11.10	P1 1P	06	11.1	CP4
08	03	11.6	CP1 1P200017		13.6	CP1
1P	02	13.6	P1 7A	11	15.1	P1
7A	13	15.65	P1 1P200009		16.2	P1
1P	06	16.2	CP4 3B	03	17	CP1
1P200016		19	CP1 1P	14	19	P4
7D	07	21.1	P1 7D	68	22.48	P1
7D	04	23.22	P1 7D	65	24.53	P1
7D	06	25.3	P1 7E	36	26.07	P1
1P200019		26.6	P1 1P	16	26.6	CP3
200008 SHUTDOWN CHECKLIST-4	08	03	0	CP1 1P200020		2
1R	13	2	P3 1P200019		3.2	P1
1R	06	3.2	CP4 3B	03	3.7	CP1
1P200021		5.7	CP1 1P	10	5.7	P3
7M	12	6.9	P2 7M	13	8.4	P2
1P200009		9.2	P1 1P	06	9.2	CP4
08	03	9.7	CP1 1P200022		11.7	CP1
1P	10	11.7	P1 40	49	12.7	P1
1P200009		13.8	P1 1P	06	13.8	CP4
08	03	14.3	CP1 1P200023		16.3	CP1
1P	12	16.3	P2 5A	17	17.7	P1
1N	16	19.37	P1 1P200009		21.93	P1
1P	06	20.93	CP4			

200009 SHUTDOWN CHECKLIST-5	8B	03	0	CP1	1P200024	2	CP1
	1P	10	2	P1	4F	12	P1
	1P200020		5	P1	1P	08	CF3
	8B	03	6.2	CP1	1P200025	6.2	CP1
	1P	11	8.2	P2	1P200029	9	P1
	1P	06	9	CP4	8B	03	CP1
	1P200026		11.6	CP1	1P	10	P1
	1P200031		12.6	P1	1P	06	CP3
	8B	03	13.6	CP1	1P200027	13.6	CP1
	1R	10	15.6	P1	1P200032	16.6	P1
	1P	06	16.6	CP1	8B	03	CP1
	1P200033		19.5	CP1	1P	02	P1
	7H	01	21	P1	7H	02	P1
	1P200034		26	P1	1P	06	CP1
	8B	03	26.5	CP1	1P200035	30.5	CP1
	1P	12	30.5	P1			
200010 SECURING PROCEDURE	7D	05	0	P3	7L	11	P4
	8B200001		5	P1	7B	55	P2
	1P200039		38.3	P1	1P	10	CP3
200011 SHUTDOWN CHECKLIST-6	8B	03	0	CP1	1P200036	2	CP1
	1P	10	2	P1	1P200009	3	P1
	1P	05	5	CP4	8B	03	CP1
	1P200037		5.5	CP1	1P	10	P1
	1P200009		6.5	P1	1P	06	CP4
	8B	03	7	CP1	1P200038	9	CP1
	1P	16	9	P4			
200012 SCENARIO COMPLETED							
20EK01 SHUTDOWN PROCEDURE - 1A	4B	08	0	CP2	4D	27	CP3
	4D	29	0	CP4	7L	01	CP1
	7L	02	8.35	CP1	7B	25	CP1
	7M	08	11.35	CP4	7M	10	CP3
	7F	31	17.1	CP1	7F	32	CP2
	7F	33	19.56	CP2	7F	34	CP2
	7G	05	20.44	CP2	7C	25	CP3
	7C	27	24.5	CP3	7C	31	CP4
	7C	35	27.54	CP3	7C	34	CP2
	7C	43	30.36	CP2			
20EK02 SHUTDOWN PROCEDURE - 2A	7B	11	0	CP3	7G	34	CP3
	7K	08	3.7	CP2	7K	12	CP1
	7J	25	9.06	CP2	7J	27	CP2
	7J	29	11.90	CP1	7J	31	CP1
	7J	33	14.16	CP1	7J	35	CP1
	7J	37	16.43	CP1	7J	39	CP1
	7J	03	18.71	CP1	7J	09	CP1
	7J	11	22	CP1			
20EK03 SHUTDOWN PROCEDURE - 3A	7D	03	0	CP1	7D	32	CP1
	7D	20	4.47	CP1	7D	21	CP1
	7D	15	8.07	CP1	7D	17	CP1
	7D	27	12.87	CP1	7G	26	CP2
	1F	07	17.91	CP3	1F	06	CP1
	1H	01	23.11	CP2	1F	09	CP3
	1P200040		27	CP1	1B	29	CP4
	1P	11	29	CP3	1P200041	29	CP1
	1P	09	32	CP1	1P200042	32	CP1
	4D	51	33	CP2	7D	01	CP3
	7H	14	39	CP1	7H	11	CP1
20EK05 PERFORM SHUTDOWN CHECKLIST - 1A	8B	02	0	CP1	8B	03	CP1
	7C	71	6	CP1	8B	03	CP1
	7B	94	9.54	CP1	8B	03	CP1

	88	03	13	CP1	7G	49	15	CP1
	88	03	16.28	CP1	7G	50	18.28	CP1
	88	03	19.56	CP1	7K	12	21.56	CP1
	88	03	22.7	CP1	7J	47	24.7	CP1
	7J	48	26.17	CP1	9B	03	28.92	CP1
	7J	49	28.92	CP1	7J	50	30.35	CP1
20EK06 PERFORM SHUTDOWN	88	03	0	CP1	7A	11	2	CP1
CHECKLIST - 2A	7A	13	2.55	CP1	88	03	3.1	CP1
	7D	67	5.1	CP1	7D	68	6.45	CP1
	7D	64	7.22	CP1	7D	65	8.53	CP1
	7D	66	9.3	CP1	7D	36	10.07	CP1
	99	03	10.61	CP1	98	03	12.51	CP1
	7M	12	14.61	CP2	7M	13	16.11	CP2
20EK07 PERFORM SHUTDOWN	88	03	16.89	CP1	4D	49	18.89	CP1
CHECKLIST - 3A	88	03	0	CP1	6A	17	2	CP1
	1N	18	4.17	CP1	88	03	5.23	CP1
	4F	12	7.23	CP1	88	03	9.23	CP1
	88	03	11.23	CP1	88	03	13.23	CP1
	7H	01	15.23	CP1	7H	02	18.04	CP1
	88	03	20.07	CP1				
20EK08 SECURING PROCEDURE-A	7D	06	0	CP2	7L	11	2.49	CP1
	88	0001	6.08	CP1	78	55	37	CP3
20EK09 PERFORM SHUTDOWN	88	03	0	CP1	68	03	2	CP1
CHECKLIST - 4A	88	03	4	CP1				
20EK10 SCENARIO COMPLETED								
230001 TURN OFF OF RWY 08	4M	01	0	P4	8A	02	0	P3
ONTO TAXIWAY D AND	48	03	10	P1	4M	02	10	P4
TAXI TO RAMP	4D	28	1	P1	48	00	12	P1
230002 AFTER LANDING PROC.	4F	01	0	P3	7E	16	0	CP3
	7M	17	3	CP1	7M	16	5.5	CP1
	7L	21	7	CP1	7G	16	8.5	CP2
	6A	09	10	CP1	1N	01	12.30	CP1
	4F	12	14	CP1	4E	00	16.3	CP3
	78	35	19	CP1	78	25	20.75	CP1
230003 TURN OFF OF TAXIWAY	3A	02	0	P2	4M	01	0	P2
D ONTO RAMP AND TAXI	48	03	5	P4	4M	02	0	P3
TO GATE	4D	28	2	P1	48	08	2	P1
230004 TAXI UP TO GATE	4M	01	0	P4	48	03	0	P4
	8A	05	0	P1				
23EK01 TURN OFF OF RWY 08	4M	03	0	CP4	8A	07	0	CP2
ONTO TAXIWAY D AND	48	07	10	CP1	4M	02	10	CP4
TAXI TO RAMP. - A	4D	28	1	CP1	48	07	12	CP1
23EK02 AFTER LANDING PROC -	7E	16	0	CP3	7M	17	3	CP1
A	7M	18	5.5	CP1	7L	21	7	CP1
	7G	16	8.5	CP2	6A	09	10	CP1
	1N	01	12.37	CP1	4F	12	14.3	CP1
	4E	06	16.3	CP3	78	35	19	CP1
	78	25	20.75	CP1				
23EK03 TURN OFF OF TAXIWAY	4M	03	0	CP4	3A	07	0	CP3
D AND ONTO RAMP AND	48	07	5	CP1	4M	04	10	CP1
TAXI TO GATE - A	4D	28	2	CP1	43	07	2	CP1
23EK04 TAXI UP TO GATE	4M	03	0	CP4	48	07	0	CP1
	3A	07	0	CP4				

**APPENDIX NINE**  
**PHASE CATALOG**

PHASES

C100 PRE-START PREP - FFD	010001	0	0	010002	215	010003	140	010004	220
	010005	327	010007	430	010008	443	010009	457	
	010010	509	010011	523	010012	538	010013	553	
	010014	641	010015	652	010016	710	010017	721	
	010018	736	010019	753	010020	800	010021	840	
	010022	845	010030	30	010031	145	010032	440	
	010033	445	010034	545	010035	625	010037	610	
	010038	822	010039	830	010040	850	010041	900	
	010042	637	010042	905	010050	935	010051	1006	
	010052	1042	010053	1119	010054	1151	010056	1205	
	010055	1225	010057	1300	010060	1445	010062	1516	
	010058	1320	010059	1440	010061	1515			
0200 PRE-START PREP - AFD	010001	0	010002	215	010003	220	020001	320	
	010005	323	010007	334	010008	347	010009	301	
	010010	513	010011	527	010012	542	010013	557	
	020002	645	020003	650	020004	559	020005	714	
	010016	721	010017	732	010018	745	020006	802	
	010020	819	010021	859	010022	904	020007	924	
	010042	935	010050	30	020008	140	010031	201	
	010032	310	020009	315	010035	407	020010	417	
	020011	500	020012	510	020013	515	020014	527	
	020015	534	020016	550	020017	605	020018	618	
	020019	630	020020	630	020021	641	020022	641	
	020023	659	020024	659	020025	630	020026	630	
	020027	843	020028	843	020029	859	020030	904	
	020031	909	020032	909	020033	924	020034	927	
	020035	927	020041	933	020036	941	020037	941	
	020038	954	020039	957	020047	957	020039	1008	
	020040	1008	020042	1020	020043	1028	020043	1034	
	020043	1040	020043	1046	020043	1052	020043	1058	
	020043	1104	020043	1110	020043	1116	020044	1122	
	010050	1130	010051	1201	010052	1233	010053	1312	
	010054	1344	020045	1353	020046	1414	010055	1434	
	010057	1505	010060	1550	010062	1721	010058	1526	
	010059	1646	010061	1721					
C300 ENGINE START	030001	0	0	030002	50	030003	140	030007	155
	030004	230	030005	254	030006	306			
A400 TAXI -BEFORE TAKEOFF	040001	0	0	040002	18	030007	100	040003	248
	040004	454	040005	624	040006	721	030007	200	
	030007	300	030007	400	030007	500	030007	600	
	030007	700	040007	521	040008	1008			
B400 TAXI -BEFORE TAKEOFF (AFD)	040010	0	040002	18	030007	100	040003	248	
	040004	454	040011	624	040005	721	030007	200	
	030007	300	030007	400	030007	500	030007	600	
	030007	700	040012	521	040006	1008			
A700 TAKEOFF (FFD)	070001	0	0	070002	24	070003	49	070004	109
	070005	240	070006	130	070006	245	030007	305	
	070007	317							
B700 TAKEOFF (AFD)	070001	0	070002	24	070003	49	070012	115	
	070004	130	070013	145	070014	245	070005	245	
	070015	250	030007	310	070011	322			
A900 NOISE ABATEMENT CLIMB - NORMAL AWY (FFD)	090001	0	0	030007	15	090002	0	090003	0
	090004	10	090005	20	090002	20	090003	20	
	090006	30	090002	30	090003	32	030007	45	
	090002	40	090003	42	090002	50	090003	52	
	090003	100	090004	102	090007	105	090002	108	
	090003	108	030007	110	090006	115	090009	118	
	090010	123	090008	125	090009	125	090003	130	

090009	140	030007	140	090011	146	090012	142
090013	152	090016	145	090017	145	090021	155
090018	215	090019	215	090014	205	030007	230
090015	315	030007	300	090016	305	090017	305
030007	355	090020	335	090003	335	090003	345
090022	405	090018	405	090014	401	090023	410
090024	500	090018	505	090014	505	030007	510
090018	605	090014	605	030007	605	090025	650
090026	707	140023	707	090016	705	090017	705
030007	710	090002	735	090003	735	090008	745
090009	745	090027	750	090018	750	090019	750
030007	755	090018	850	090014	850	030007	850
090018	950	090019	950	030007	945	090016	1050
090017	1050	030007	1100	090015	1120	090017	1120
090028	1140	090018	1150	090019	1150	030007	1515
090016	1250	090019	1250	090029	1310	090016	1350
090017	1350	030007	1410	090030	1430	090018	1430
090019	1430	030007	1455	090018	1530	090019	1530
030007	1555	090016	1630	090017	1630	090031	1645
090032	1700	140023	1700	030007	1705	090016	1705
090017	1705	090033	1715	090002	1735	090003	1735
090034	1740	090035	1800	090036	1805	090037	1805
090038	2305	090039	2305	090040	2305	030007	1825
090018	2505	090019	2505	030007	1925	030007	2525
030007	2125	030007	2225	030007	2325	030007	2425
030007	2525	030007	2625	090041	2605	090016	2610
090017	2610	090002	2640	090003	2640	090042	2650
090002	2650	090003	2650	090002	2700	090003	2700
090043	2700	090044	2710	090038	2720	090039	2720
090045	2745	090046	2750	090047	2750	090048	2750
090049	2750	090050	2750	090051	2750	090052	2750
030007	2925						
030007	2925						

B900 NOISE ABATEMENT  
CLIMB - AREA NAV  
(AFD)

090060	0	090050	0	090051	0	030007	18
090052	18	090053	18	090054	18	090055	25
090054	25	090006	33	090057	111	090011	131
090056	131	090057	136	090057	136	030007	140
090012	142	090013	200	090021	200	030007	240
090076	148	090014	205	090051	300	090058	353
030007	340	090059	353	090051	400	090061	433
090062	443	030007	450	090051	500	030007	550
090051	600	030007	650	090051	700	090053	708
030007	750	090051	800	090054	823	090065	823
090066	833	090057	833	030007	850	090051	900
090068	923	090069	910	090070	923	090071	930
090072	945	030007	1050	090051	1050	090073	1030
140023	1025	090074	1125	090075	1125	090051	1100
090051	1200	090051	1300	090051	1400	030007	1150
030007	1250	030007	1350	090077	1421	090078	1328
030007	1450	090051	1500	090079	1524	090072	1538
030007	1550	090051	1600	140023	1627	090075	1631
030007	1650	090051	1700	090080	1727	090075	1727
090081	1742	030007	1750	090082	2132	090083	2146
030007	1850	030007	1950	030007	2050	030007	2200
030007	2300	090051	1800	090051	1900	090051	2000
090051	2100	090051	2200	090051	2300	090078	2140
140023	2415	030007	2450	090051	2450		
090061	0	030007	15	090002	0	090003	0
090064	10	090005	20	090002	20	090005	20

A9FE NOISE ABATEMENT  
CLIMB - NORMAL APT -

HYD SYS B PUMP DVHT	090006	30	090002	30	090003	32	030007	45
	090002	40	090003	42	090002	50	090003	52
	090008	100	090009	102	090007	103	090002	108
	090003	108	030007	110	090006	118	090009	118
	090010	123	090008	125	090009	125	090003	130
	090009	140	030007	140	090011	146	090012	142
	090013	152	090016	145	090017	145	090021	155
	090013	215	090019	215	090014	205	030007	230
	090015	315	030007	300	090016	305	090017	305
	030007	355	090020	335	090003	335	090003	345
	090022	405	090018	405	090019	405	090023	410
	090024	500	090018	505	090019	505	030007	510
	090018	605	090019	605	030007	605	090025	650
	090026	707	140023	707	090016	705	090017	705
	030007	710	090002	735	090003	735	090003	745
	090009	745	090027	750	090013	750	090019	750
	030007	755	090018	850	090019	850	030007	850
	090018	950	090019	950	030007	945	090016	1050
	090017	1050	030007	1100	090016	1120	090017	1120
	090028	1140	090018	1150	090019	1150	030007	1215
	090018	1250	090019	1250	090029	1310	090016	1350
	090017	1350	030007	1410	090013	1430	090018	1430
	090019	1430	030007	1455	090018	1530	090019	1530
	030007	1555	090016	1630	090017	1630	090031	1645
	090032	1700	140023	1700	030007	1705	090016	1705
	090017	1705	090033	1715	090002	1735	090003	1735
	090034	1740	090035	1800	090036	1805	090037	1805
	090036	2305	090039	2305	090040	2305	030007	1925
	090018	2505	090019	2505	030007	1925	030007	2025
	030007	2125	030007	2225	030007	2325	030007	2425
	030007	2525	030007	2625	090041	2605	090016	2610
	090017	2610	090002	2640	090033	2640	090042	2650
	090002	2650	090003	2650	090002	2700	090003	2700
	090043	2700	090044	2710	090038	2720	090039	2720
	090045	2845	090002	2920	090003	2920	090002	2930
	090003	2930	090008	2944	090009	2940	030007	2950
	030007	2925						

B9FE NOISE ABATEMENT  
CLIMB- AREA MAX -  
HYD SYS B PUMP DVHT

	090060	0	090050	0	090051	0	030007	18
	090052	18	090053	18	090054	18	090055	25
	090054	25	090006	33	090007	111	090011	131
	090056	131	090057	136	090057	136	030007	140
	090012	142	090013	203	090051	200	030007	240
	090076	148	090014	205	090051	300	090056	353
	030007	340	090054	353	090051	400	090061	433
	090062	443	030007	450	090051	500	030007	550
	090051	600	030007	650	090051	700	090003	708
	030007	750	090051	800	090054	823	090065	823
	090066	833	090067	833	030007	850	090051	900
	090068	923	090069	915	090070	925	090071	930
	090072	945	030007	1050	090051	1000	090073	1030
	140023	1025	090074	1125	090075	1125	090051	1100
	090051	1200	090051	1300	090051	1400	030007	1150
	030007	1250	030007	1350	090077	1421	090078	1326
	030007	1450	090051	1500	090074	1524	090072	1538
	030007	1550	090051	1600	140023	1627	090073	1631
	030007	1650	090051	1700	090030	1727	090075	1727
	090081	1742	030007	1750	090082	2132	090083	2146
	030007	1850	030007	1950	030007	2050	030007	2200



	030007	2300	090051	1800	090051	1900	090051	2000
	090051	2100	090051	2200	090051	2300	090051	2140
	140023	2415	030007	2400	090051	2400		
1100 CRUISE - NORMAL AWY	110001	0 0 0	090036	0	090037	0	110002	0
	030007	40	110003	40	030007	140	030007	241
	090038	500	090039	500	110004	520	090038	700
	090039	700	110005	845	110006	700	110007	905
	090038	910	090039	910	030007	340	030007	440
	030007	540	030007	640	030007	740	030007	840
	110008	930	030007	950	030007	1040	090038	1110
	090039	1110	030007	1140	110009	1150	030007	1240
	090002	1310	090003	1310	090002	1410	090003	1410
	090008	1420	090009	1420	110010	1320		
11XX CRUISE - NORMAL AWY- MULTIPLE FAULTS	110011	0 0 0	090036	0	090037	0	110002	0
	030007	40	110003	40	030007	140	030007	240
	090038	500	090039	500	110004	520	090038	700
	090039	700	110005	845	110006	900	110007	905
	090038	910	090039	910	030007	340	030007	440
	030007	540	030007	640	030007	740	030007	840
	110008	930	030007	950	030007	1040	090038	1110
	090039	1110	030007	1140	110009	1150	030007	1240
	090002	1310	090003	1310	090002	1410	090003	1410
	090008	1420	090009	1420	110010	1320		
						110001	20	
1300 CRUISE - AREA NAV	114001	153	110001	405				
	110001	0	130001	0	130002	0	030007	30
	110003	40	030007	130	030007	230	030007	330
	030007	430	030007	530	030007	630	030007	730
	030007	830	030007	930	090051	100	090051	200
	090051	300	090051	400	090051	500	090051	600
	090051	700	090051	800	090051	900	090051	1000
	130003	825	130004	1025	030007	1100	090051	1100
	030007	1200	090051	1200	130005	1210	130006	1220
	130007	1220	030007	1300	030007	1400	030007	1500
	090051	1300	090051	1400	090051	1500	130008	1520
	130009	1530	130010	1550	130011	1550	130012	1558
	130013	1558	130014	1618	130015	1618	130016	1633
	130017	1650	020025	1650	130016	1650	020030	1710
	130019	1715	130020	1715	130021	1730	130022	1745
	020030	1755	130023	1755	020034	1810	130013	1810
	020034	1825	130023	1825	020042	1850	020043	1857
	020043	1900	020043	1900	020043	1915	020044	1921
	130026	1930	130024	1940	090051	1900	090051	1900
	090051	1800	090051	1900	130025	1940	030007	2010
	030007	2110	030007	2210	030007	2310	090051	2410
	090051	2100	090051	2200	090051	2300	130026	1930
13XX CRUISE - AREA NAV - MULTIPLE FAULTS	110001	0	130001	0	130002	0	030007	30
	110003	40	030007	130	030007	230	030007	330
	030007	430	030007	530	030007	630	030007	730
	030007	830	030007	930	090051	100	090051	200
	090051	300	090051	400	090051	500	090051	600
	090051	700	090051	800	090051	900	090051	1000
	130003	825	130004	1025	030007	1100	090051	1100
	030007	1200	090051	1200	130005	1210	130006	1220
	130007	1220	030007	1300	030007	1400	030007	1500
	090051	1300	090051	1400	090051	1500	130008	1520
	130009	1530	130010	1550	130011	1550	130012	1558
	130013	1558	130014	1618	130015	1618	130016	1633

## 1400 DESCENT

130017	1650	020025	1655	130018	1655	020030	1710
130019	1715	130020	1715	130021	1736	130022	1745
020036	1755	130015	1755	020037	1810	130013	1810
020034	1825	130023	1825	020042	1851	020043	1857
020043	1903	020043	1909	020043	1915	020044	1921
130026	1930	130024	1840	090051	1600	090051	1700
090051	1600	090051	1900	130025	1940	030007	2010
030007	2110	030007	2210	030007	2310	090051	2000
090051	2100	090051	2200	090051	2300	130026	1930
11F001	245	11AF01	413	11C801	626		
140001	0	140002	0	140003	0	090038	10
090039	10	030007	26	030007	135	090008	210
090009	210	140004	215	140003	215	090018	225
090019	225	030007	235	140005	305	140006	325
140007	325	030007	335	090002	335	090003	335
030007	435	090036	445	090039	445	140008	447
030007	535	140009	545	140007	545	090036	555
090037	555	140010	605	140011	615	030007	625
030007	725	140012	745	030007	835	030007	835
030007	835	140013	1055	090002	1055	090003	1055
140014	1105	140003	1105	090036	1115	090037	1115
090018	1515	090019	1615	090016	1715	090017	1715
090008	1745	090009	1745	030007	1135	030007	1235
030007	1335	030007	1435	030007	1535	030007	1635
030007	1735	140015	1750	140016	1750	140017	1811
140018	1835	140032	1838	090035	1750	090037	1750
090018	2250	090019	2250	030007	1835	030007	1935
030007	2035	030007	2135	030007	2235	140019	2240
140020	2245	090036	2355	090037	2350	140021	2305
140022	2255	140023	2255	140024	2350	140003	2350
140025	2405	140026	2510	030007	2435	030007	2435
030007	2535	030007	2635	030007	2735	030007	2835
140027	2845	030007	2935	030007	3035	030007	3135
030007	3235	030007	3335	140028	3405	140029	3420
140003	3420	090038	3430	090039	3430	090038	3530
090039	3630	140023	3805	090016	3830	090017	3830
090002	3900	090003	3900	030007	3435	030007	3535
030007	3635	030007	3735	030007	3835	030007	3935
140030	3910	140003	3910	140031	3930	090038	3920
090039	3920						

## 1500 DESCENT - AFD

150001	0	150002	15	090051	25	150004	35
150005	57	150006	110	150007	240	150020	240
090051	120	090051	220	090051	320	090051	420
090051	520	090051	620	030007	100	030007	200
030007	350	030007	400	030007	500	030007	600
030007	700	150006	245	150009	720	090007	720
150010	740	090051	800	090051	900	090051	1000
090051	1100	090051	1200	090051	1300	090051	1400
030007	800	030007	900	030007	1000	030007	1100
030007	1200	030007	1300	030007	1400	150011	1240
150012	1300	150013	1310	140032	1310	150014	1300
090007	1500	150015	1535	090051	1500	090051	1700
090051	1800	090051	1900	030007	1500	030007	1600
030007	1700	030007	1800	030007	1900	150016	1950
090051	2000	090051	2100	090051	2200	090051	2300
090051	2400	030007	2100	030007	2200	030007	2300
030007	2400	150017	2420	090007	2420	150018	2440
090051	2500	030007	2500	150019	2520	150020	2520
090051	2600	030007	2600	150021	2520	090051	2620

1600 APPROACH AND LAND -  
ILS PROCEDURAL

150022	2700	090051	2700	090057	2700	150023	2700
150024	2745	150025	2815	150025	2845	150027	2840
150001	0	160002	10	150003	42	140032	42
150004	50	030007	55	150005	51	150006	124
150007	149	090016	140	090017	140	090002	210
090003	210	090002	220	090003	220	160008	220
090007	230	160009	230	140007	230	090006	240
090009	240	160010	245	090002	250	090003	250
150011	245	160012	255	150013	255	160014	310
090033	255	090039	255	150015	355	160016	401
150017	405	160018	405	130007	425	160019	510
090018	455	090019	455	030007	525	150020	540
150021	555	140007	555	090017	625	090018	625
160022	635	160023	655	160024	655	140003	655
160025	655	160018	655	140025	942	160000	800
090036	705	090039	705	090002	905	090003	905
030007	625	030007	725	030007	325	030007	425
160026	1015	140003	1015	160035	1020	090036	1020
090039	1025	160027	1055	160028	1105	150029	1113
090046	1225	090017	1225	090002	1255	090002	1255
090002	1315	090003	1305	160030	1305	160039	1050
150040	1040	160041	705	160041	805	160041	905
160041	1005	160041	1105	160041	1205	160041	1305
160041	1405	160041	1505	160041	1605	160042	1100
150042	1200	160042	1300	160042	1400	160042	1500
160042	1600	030007	1025	030007	1125	030007	1225
030007	1325	160031	1315	140007	1315	090016	1525
090019	1325	160033	1405	160032	1405	090008	1425
090009	1425	160034	1430	160035	1430	140037	1430
090018	1440	090019	1440	090002	1540	090003	1540
090006	1550	090009	1550	150036	1510	160037	1555
150043	1603	160044	1615	160045	1615	160046	1615
150072	1625	160047	1620	150048	1530	030007	1630
160049	1635	160047	1640	160048	1550	160047	1700
160046	1710	160050	1715	160051	1720	160052	1730
160053	1730	160018	1730	160054	1730	160055	1730
160047	1740	160054	1750	160055	1755	160057	1800
160018	1800	160047	1810	030007	1820	160058	1830
160047	1840	160049	1850	160059	1905	160050	1910
160069	1800	160070	1805	160051	1915	160002	1935
160047	1955	160049	2000	150055	2010	160046	2020
160004	2030	160055	2030	160056	2030	160007	2040
150066	2050	160071	2130				

16EK APPROACH AND LAND -  
PILOT INCAPACITATED

160001	0	150002	10	150003	42	140032	42
150004	50	030007	55	150005	51	150006	124
150007	149	090016	140	090017	140	090002	210
090003	210	090002	220	090003	220	160008	220
030007	230	160009	230	140007	230	090006	240
090009	240	160010	245	090002	250	090003	250
160011	245	160012	255	160013	255	160014	310
090038	255	090039	255	160015	355	160016	401
160017	405	160018	405	030007	425	160019	510
090018	455	090019	455	030007	525	150020	540
160021	555	140007	555	090017	625	090018	625
		16EK01	625	16EK02	625	16EK03	635
16EK02	635	16EK02	645	16EK04	655	16EK05	655
16EK06	655	16EK07	705	16EK06	705	16EK09	715
16EK10	915	16EK11	1015	16EK08	1015	160036	1025
16EK12	1025	160027	1055	16EK13	1100	16EK09	1055

16EK02	1255	16EK02	1305	16EK14	1110	160030	1305
030007	640	030007	740	030007	840	030007	940
030007	1040	030007	1140	030007	1240	160034	1030
160040	1040	16EK15	635	16EK15	735	16EK15	835
16EK15	935	16EK15	1035	16EK15	1135	16EK16	1055
16EK16	1155	16EK16	1255	16EK17	1315	16EK18	1315
16EK10	1325	16EK19	1405	16EK20	1425	160033	1405
160034	1430	16EK21	1430	16EK18	1430	16EK22	1505
16EK10	1440	16EK02	1540	16EK20	1550	030007	1340
030007	1440	030007	1540	16EK15	1335	16EK15	1435
16EK15	1535	16EK16	1355	16EK16	1455	16EK23	1555
16EK24	1615	160045	1615	16EK25	1615	16EK26	1625
16EK16	1655	160050	1715	16EK27	1720	16EK28	1730
16EK29	1730	16EK38	1730	16EK30	1730	160055	1730
030007	1740	030007	1840	030007	1940	16EK15	1735
16EK15	1835	16EK15	1935	16EK31	1755	16EK32	1755
16EK08	1755	16EK09	1825	16EK33	1905	160060	1910
16EK34	1755	160061	1915	16EK35	1930	16EK36	2030
16EK37	2030	16EK38	2030	16EK39	2046	16EK40	2056
160071	2130						
160001	0	160002	10	160003	42	140032	42
170001	50	170002	55	030007	55	170003	105
160011	105	160005	115	160006	144	170004	115
090016	140	090017	140	030007	155	170005	200
160007	207	140007	210	170006	220	090016	220
090017	220	090002	250	090003	250	090002	300
090003	300	090008	310	090009	310	170007	220
160019	235	030007	355	170008	400	170009	415
140007	415	030007	455	170010	515	090018	425
090019	425	090002	525	090003	525	170011	525
160017	525	160018	525	170012	535	140003	535
030007	555	090008	545	090009	545	090018	745
090019	745	030007	855	030007	755	160006	835
140023	815	090002	845	090003	845	030007	855
170013	855	140003	855	090018	905	090019	905
090016	1005	090017	1005	170014	915	030007	955
030007	1055	160038	915	160047	920	160047	1000
160047	1030	160047	1100	160047	1130	170015	1015
170016	1025	140007	1025	140003	1035	090018	1045
090019	1045	140023	1112	170017	1125	170018	1145
140003	1145	170019	1135	170020	1155	160025	1155
160018	1155	170021	1155	090002	1155	090003	1155
160047	1200	170022	1205	030007	1215	160036	1225
160047	1230	170023	1255	170024	1255	160069	1300
160070	1305	160045	1305	170031	1255	170025	1325
170026	1325	160053	1335	160018	1335	170027	1335
140003	1335	160060	1345	170028	1355	160057	1355
160018	1355	160061	1405	170029	1425	140003	1425
170030	1435	140003	1435	090018	1445	090019	1445
090002	1545	090003	1545	160047	1430	030007	1440
160047	1500	030007	1510	160053	1521	160065	1547
160066	1555	160067	1610	160068	1620	160071	1654
160001	0	160002	10	160003	42	140032	42
170001	50	170002	55	030007	55	170003	105
160011	105	160005	115	160006	144	170004	115
090016	140	090017	140	030007	155	170005	200
160007	207	140007	210	170006	220	090016	220
090017	220	090002	250	090003	250	090002	300
090003	300	090008	310	090009	310	170007	220

1700 APPROACH AND LAND -  
MLS PROCEDURAL

17EK APPROACH AND LAND  
-MLS PROCEDURAL

160019	235	030007	355	170008	400	170009	415
140007	415	030007	455	170010	515	090018	425
090119	425	090002	525	090003	525	170011	525
160017	525	160018	525	170012	535	140003	535
090016	545	090017	545	030007	555	090002	515
090003	515	090002	625	090003	625	17EK	525
17EK01	625	16EK09	625	150000	615	16EK12	625
170013	855	16EK06	855	15EK15	905	17EK02	915
160038	920	030007	945	030007	1045	16EK12	955
170015	1015	17EK03	1025	16EK15	1025	16EK06	1035
16EK10	1045	17EK04	1125	17EK05	1145	16EK06	1145
170019	1135	17EK06	1155	16EK07	1155	16EK06	1155
170021	1155	16EK02	1155	17EK07	1205	170023	1215
17EK08	1255	16EK34	1305	150045	1305	17EK09	1255
17EK10	1325	170026	1325	16EK29	1335	16EK06	1335
17EK11	1335	16EK06	1335	150055	1345	17EK12	1355
16EK32	1355	16EK07	1355	15EK35	1405	17EK13	1425
16EK06	1425	17EK14	1435	15EK05	1435	030007	1455
17EK15	1521	16EK10	1505	15EK36	1505	17EK15	1510
17EK17	1620	160071	1654				
180001	0	160002	5	150003	40	140032	40
170004	50	160004	105	090004	0	090004	100
160005	205	090007	205	150006	215	180007	215
160005	115	160006	144	160007	209	160011	215
090051	300	030007	300	160008	305	090051	400
160009	405	030007	435	090051	500	180010	515
090067	515	030007	530	160011	535	180012	555
160025	555	160016	555	090021	500	180013	610
160014	615	180015	620	030007	630	180016	655
090051	700	030007	730	090051	800	140023	805
030007	730	180017	835	150025	835	180018	835
090051	900	160019	915	160020	925	030007	930
090051	1000	090051	1100	090051	1200	030007	1020
030007	1130	030007	1230	180021	1225	090007	1225
180039	1235	090051	1300	180022	1320	180023	1320
030007	1345	180024	1350	090007	1350	180025	1425
090051	1500	030007	1500	180026	1515	090067	1515
180027	1515	180026	1535	160045	1535	090051	1600
030007	1600	180029	1635	160030	1645	160033	1645
160018	1645	180031	1645	090031	1700	030007	1700
150032	1715	160037	1715	150016	1715	160039	1720
160070	1725	160036	1745	090031	1800	030007	1800
150059	1825	180033	1825	160033	1830	180034	1835
160062	1855	090051	1900	030007	1900	160033	1937
160064	1955	180039	1955	090051	2000	160035	2010
180036	2020	180037	2120	180038	2050		
180001	0	180002	5	160003	40	140032	40
170004	50	160004	105	090004	0	090004	100
160005	205	090007	205	150006	215	180007	215
160005	115	160006	144	160007	209	160011	215
090051	300	030007	300	160008	305	090051	400
160009	405	030007	435	090051	500	180010	515
090067	515	030007	530	160011	535	180012	555
160025	555	160016	555	090021	500	180013	610
160014	615	180015	620	030007	630	180016	655
090051	700	030007	730	090051	800	140023	805
030007	730	180017	835	150025	835	180018	835
090051	900	160019	915	160020	925	030007	930
090051	1000	090051	1100	090051	1200	030007	1020
030007	1130	030007	1230	180021	1225	090007	1225
180039	1235	090051	1300	180022	1320	180023	1320
030007	1345	180024	1350	090007	1350	180025	1425
090051	1500	030007	1500	180026	1515	090067	1515
180027	1515	180026	1535	160045	1535	090051	1600
030007	1600	180029	1635	160030	1645	160033	1645
160018	1645	180031	1645	090031	1700	030007	1700
150032	1715	160037	1715	150016	1715	160039	1720
160070	1725	160036	1745	090031	1800	030007	1800
150059	1825	180033	1825	160033	1830	180034	1835
160062	1855	090051	1900	030007	1900	160033	1937
160064	1955	180039	1955	090051	2000	160035	2010
180036	2020	180037	2120	180038	2050		
180001	0	180002	5	160003	40	140032	40
170004	50	160004	105	090004	0	090004	100
160005	205	090007	205	150006	215	180007	215
160005	115	160006	144	160007	209	160011	215
090051	300	030007	300	160008	305	090051	400
160009	405	030007	435	090051	500	180010	515
090067	515	030007	530	160011	535	180012	555
160025	555	160016	555	090021	500	180013	610
160014	615	180015	620	030007	630	180016	655
090051	700	030007	730	090051	800	140023	805
030007	730	180017	835	150025	835	180018	835
090051	900	160019	915	160020	925	030007	930
090051	1000	090051	1100	090051	1200	030007	1020
030007	1130	030007	1230	180021	1225	090007	1225
180039	1235	090051	1300	180022	1320	180023	1320
030007	1345	180024	1350	090007	1350	180025	1425
090051	1500	030007	1500	180026	1515	090067	1515
180027	1515	180026	1535	160045	1535	090051	1600
030007	1600	180029	1635	160030	1645	160033	1645
160018	1645	180031	1645	090031	1700	030007	1700
150032	1715	160037	1715	150016	1715	160039	1720
160070	1725	160036	1745	090031	1800	030007	1800
150059	1825	180033	1825	160033	1830	180034	1835
160062	1855	090051	1900	030007	1900	160033	1937
160064	1955	180039	1955	090051	2000	160035	2010
180036	2020	180037	2120	180038	2050		
180001	0	180002	5	160003	40	140032	40
170004	50	160004	105	090004	0	090004	100
160005	205	090007	205	150006	215	180007	215
160005	115	160006	144	160007	209	160011	215
090051	300	030007	300	160008	305	090051	400
160009	405	030007	435	090051	500	180010	515
090067	515	030007	530	160011	535	180012	555
160025	555	160016	555	090021	500	180013	610
160014	615	180015	620	030007	630	180016	655
090051	700	030007	730	090051	800	140023	805
030007	730	180017	835	150025	835	180018	835
090051	900	160019	915	160020	925	030007	930
090051	1000	090051	1100	090051	1200	030007	1020
030007	1130	030007	1230	180021	1225	090007	1225
180039	1235	090051	1300	180022	1320	180023	1320
030007	1345	180024	1350	090007	1350	180025	1425
090051	1500	030007	1500	180026	1515	090067	1515
180027	1515	180026	1535	160045	1535	090051	1600
030007	1600	180029	1635	160030	1645	160033	1645
160018	1645	180031	1645	090031	1700	030007	1700
150032	1715	160037	1715	150016	1715	160039	1720
160070	1725	160036	1745	090031	1800	030007	1800
150059	1825	180033	1825	160033	1830	180034	1835
160062	1855	090051	1900	030007	1900	160033	1937
160064	1955	180039	1955	090051	2000	160035	2010
180036	2020	180037	2120	180038	2050		
180001	0	180002	5	160003	40	140032	40
170004	50	160004	105	090004	0	090004	100
160005	205	090007	205	150006	215	180007	215
160005	115	160006	144	160007	209	160011	215
090051	300	030007	300	160008	305	090051	400
160009	405	030007	435	090051	500	180010	515
090067	515	030007	530	160011	535	180012	555
160025	555	160016	555	090021	500	180013	610
160014	615	180015	620	030007	630	180016	655
090051	700	030007	730	090051	800	140023	805
030007	730	180017	835	150025	835	180018	835
090051	900	160019	915	160020	925	030007	930
090051	1000	090051	1100	090051	1200	030007	1020
030007	1130	030007	1230	180021	1225	090007	1225
180039	1235	090051	1300	180022	1320	180023	1320
030007	1345	180024	1350	090007	1350	180025	1425
090051	1500	030007	1500	180026	1515	090067	1515
180027	1515	180026	1535	160045	1535	090051	1600
030007	1600	180029	1635	160030	1645	160033	1645
160018	1645	180031	1645	090031	1700	030007	1700
150032	1715	160037	1715	150016	1715	160039	1720
160070	1725	160036	1745	090031	1800	030007	1800
150059	1825	180033	1825	160033	1830	180034	1835
160062	1855	090051	1900	030007	1900	160033	1937
160064	1955	180039	1955	090051	2000	160035	2010
180036	2020	180037	2120	180038	2050		
180001	0	180002	5	160003</			

	180058	1340	180059	1130	180060	1100	180061	1120
	180059	1110	180062	1130	180063	1130	180064	1140
	180060	1120	180065	1210	180066	1210	180067	1210
	180061	1210	180068	1215	180069	1215	180070	1215
	180062	1215	180069	1217	180070	1220	180071	1230
	180063	1235	180070	1235	180071	1235	180072	1240
	180064	1300	180071	1305	180072	1310	180073	1315
	180065	1330	180072	1405	180073	1432	180074	1440
	180066	1440	180073	1450	180074	1550	180075	1520
18EK APPROACH AND LANDING	180067	0	180074	5	180075	40	180076	40
-ILS (AFD)	180068	50	180075	105	180076	0	180077	100
-PILOT INCAPACITATED	180069	205	180076	205	180077	215	180078	255
	180070	115	180077	144	180078	209	180079	255
	180071	300	180078	300	180079	305	180080	400
	180072	405	180079	430	180080	500	180081	515
	180073	515	180080	530	180081	535	180082	555
	180074	555	180081	555	180082	600	180083	610
	180075	615	180082	620	180083	630	180084	655
	180076	700	180083	730	180084	800	180085	805
	180077	730	180084	835	180085	835	180086	835
	180078	900	180085	915	180086	925	180087	930
	180079	1000	180086	1100	180087	1200	180088	1111
	180080	1110	180087	1225	180088	1225	180089	1235
	180081	1300	180088	1320	180089	1320	180090	1345
	180082	1350	180089	1350	180090	1425	180091	1500
	180083	1510	180090	1515	180091	1515	180092	1515
	180084	1535	180091	1535	180092	1600	180093	1610
	180085	1635	180092	1645	180093	1645	180094	1645
	180086	1645	180093	1700	180094	1710	180095	1715
	180087	1715	180094	1715	180095	1720	180096	1745
	180088	1800	180095	1810	180096	1825	180097	1825
	180089	1832	180096	1840	180097	1905	180098	1930
	180090	1940	180097	1955	180098	1955	180099	2000
18XX APPROACH AND LANDING	180091	2010	180098	2020	180099	2120	180100	2050
-MLS (AFD)	180092	0	180099	5	180100	40	180101	40
-PILOT INCAPACITATED	180093	50	180100	105	180101	0	180102	100
	180094	205	180101	205	180102	215	180103	255
	180095	115	180102	144	180103	209	180104	255
	180096	300	180103	300	180104	305	180105	400
	180097	405	180104	430	180105	500	180106	515
	180098	515	180105	530	180106	535	180107	545
	180099	545	180106	545	180107	555	180108	600
	180100	600	180107	650	180108	700	180109	700
	180101	735	180108	850	180109	800	180110	835
	180102	835	180109	840	180110	845	180111	850
	180103	935	180110	945	180111	945	180112	900
	180104	1000	180111	900	180112	1000	180113	1025
	180105	1040	180112	1100	180113	1100	180114	1110
	180106	1110	180113	1110	180114	1120	180115	1130
	180107	1110	180114	1110	180115	1130	180116	1120
	180108	1140	180115	1200	180116	1210	180117	1210
	180109	1210	180116	1210	180117	1210	180118	1216
	180110	1216	180117	1217	180118	1220	180119	1230
	180111	1235	180118	1235	180119	1235	180120	1240
	180112	1300	180119	1305	180120	1310	180121	1315
	180113	1330	180120	1432	180121	1440	180122	1440
	180114	1450	180121	1520	180122	1550	180123	1550
2000 SHUTDOWN	200001	0	200002	50	200003	52	200004	142
	200006	200	200007	215	200008	242	200009	304
20EK SHUTDOWN- PILOT	200010	337	200011	337	200012	430	200013	430
INCAPACITATED	200014	0	200015	32	200016	58	200017	142
	200018	214	200019	236	200020	256	200021	336
	200022	344	200023	10	200024	118	200025	240
2300 TAXI - AFTER LANDING	230001	0	230002	10	230003	118	230004	240
23EK TAXI - AFTER LANDING	230005	0	230006	10	230007	118	230008	240
-PILOT INCAPACITATED	230009	0	230010	10	230011	118	230012	240

**APPENDIX TEN**  
**MISSION CATALOG**

XXXX SCENARIO 1A - ILS 5 0000 1 80 10NASA 515 - FFD (737)  
 10  
 0100 0 0 0 0300 1520 A400 1850 A700 3100 A900 3435 1100 10420 1400 11755  
 1600 15735 2300 22050 2000 22340  
 2  
 PPILOT CPCO-PILOT

XXXX SCENARIO 1B - ILS 5 0000 1 80 20NASA 515 - FFD (737)  
 WITH MALFUNCTIONS  
 10  
 0100 0 0 0 0300 1520 A400 1850 A700 3100 A9FF 3435 11XX 10420 1400 11755  
 16EK 15735 23EK 22050 20EK 22340  
 2  
 PPILOT CPCO-PILOT

XXXX SCENARIO 2A - MLS 5 0000 1 80 30NASA 515 - FFD (737)  
 10  
 0100 0 0 0 0300 1520 A400 1850 A700 3100 A900 3435 1100 10420 1400 11755  
 1700 15735 2300 21510 2000 21800  
 2  
 PPILOT CPCO-PILOT

XXXX SCENARIO 2B - MLS 5 0000 1 80 40NASA 515 - FFD (737)  
 WITH MALFUNCTIONS  
 10  
 0100 0 0 0 0300 1520 A400 1850 A700 3100 A9FF 3435 11XX 10420 1400 11755  
 17EK 15735 23EK 21510 20EK 21800  
 2  
 PPILOT CPCO-PILOT



XXXX SCENARIO 3A - ILS 5 0000 1 80 50NASA 515 - AFD (737)  
 10  
 0200 0 0 0 0300 1730 8400 2100 8700 3310 8900 3642 1300 10200 1500 12400  
 1800 15250 2300 21425 2000 21715  
 1  
 CPCO-PILOT

XXXX SCENARIO 3B - ILS 5 0000 1 80 60NASA 515 - AFD (737)  
 WITH MALFUNCTIONS  
 1  
 18EK 15250 23EK 21425 20EK 21715  
 2  
 PPILOT CPCO-PILOT

XXXX SCENARIO 4A - MLS 5 0000 1 80 70NASA 515 - AFD (737)  
 1  
 1801 15250 2300 20855 2000 21145  
 2  
 PPILOT CPCO-PILOT

XXXX SCENARIO 4B - MLS 5 0000 1 80 80NASA 515 - AFD (737)  
 10  
 0200 0 0 0 0300 1730 8400 2100 8700 3310 89FE 3642 13XX 10200 1500 12400  
 18XX 15250 23EK 20855 20EK 21145  
 2  
 PPILOT CPCO-PILOT

**APPENDIX ELEVEN**  
**SUBSYSTEM CATALOG**

## SUBSYSTEMS

1A VHF-1 (FEQ)	23-21-02
1B VHF-2 (FEQ)	23-21-02
1F INTERPHONE	23-42-03
1G PUBLIC ADDRESS	23-31-00
1H GROUND CREW CALL	23-43-00
1J VOICE RECORDER	23-71-02
1M SELCAL	23-28-00
1N TRANSPONDER	34-53-02
1P VOICE	
1Q VHF-1 (AFQ)	23-21-02
1R VHF-2 (AFQ)	23-21-02
1S VHF-3 (AFQ)	23-21-02
1T LOUDSPEAKER	
2H ADV GDC CNTRL SYS (AGCS)	
2J ELEC ATT DIREC INDIC (EADI)	
2K MULTI-FUNCTION DISPLAY (MFD)	
2L NAV CNTRL DISP UNIT (NDU)	
3F MACH INDIC	34-13-06
3H CORRECTED BARO ALTITUDE INDIC	34-13-04
3J RADIO ALTIMETER	34-30-00
3K ALTITUDE ALERT SYS	34-16-00
3L VERTICAL SPEED INDIC	34-13-01
3M ELAPSED TIME INDIC	31-25-00
3N CLOCK	31-25-00
3P STANDBY ATTITUDE REF INDIC	34-24-00
3Q FLIGHT RECORDER	31-31-02
3R FLIGHT DIRECTOR INDIC (FDI)	34-41-05
3S COURSE INDIC (CI)	34-41-06
3U TOTAL AIR TEMP INDIC	34-13-07
3V APPROACH PROGRESS DISPLAY	34-34-00
3W INSTRUMENT COMPARATOR DISPLAY	34-44-00
4A PRIMARY ATTITUDE CONTROLS	27-00-00
4B PROPULSION CONTROLS/THROTTLES	76-11-00
4C THRUST REVERSED CONTROLS	78-34-00
4D LANDING GEAR AND BRAKES	32-00-00
4E FLAPS	27-50-00
4F SPEED BRAKES	27-62-00

## 4G. TRIM

4H AUTO FLIGHT CONTROLS	22-10-00
4M NOSE WHEEL STEERING	32-51-00
4N LEADING EDGE DEVICES	27-81-00
5D ADF/RMI 1	34-57-01
5E ADF/RMI 2	34-57-02
5G VOR/RMI 1	34-31-01
5H VOR/RMI 2	34-31-01
5J VORTAC	34-31-00
5K STANDBY COMPASS	34-22-00
5P DME-1	34-55-00
5Q DME-2	34-55-00
5U VHF/NAV-1 (FEQ)	
5V VHF/NAV-2 (FEQ)	
5W VHF/NAV-3 (AFQ)	
5X VHF/NAV-2 (AFQ)	
5Y VHF/NAV-3 (AFQ)	
6A WEATHER RADAR	34-43-00
6C TELEVISION	
7A HYDRAULIC SUBSYSTEM	29-00-00
7B ELECTRICAL SUBSYSTEM	24-00-00
5K STANDBY COMPASS	34-22-00
7C FUEL SUBSYSTEM	28-00-00
7D AIR CONDITIONING SUBSYSTEM	21-00-00
7E CABIN PRESSURE SUBSYSTEM	21-31-03
7F PROPULSION SUBSYSTEM	23-20-00
7G FLIGHT SUBSYSTEM	33-00-00
7H OXYGEN SUBSYSTEM	35-00-00
7J ANTI-ICE SUBSYSTEM	30-00-00
7K RAIN REMOVAL AND DEFOG SYRSES	30-40-00
7L AUX POWER UNIT	40-61-00
7M ENGINE START CONTROLS	74-31-00
7P FIRE/OVERHEAT/SMOKE DETEC	26-00-00
7Q DOORS	
8B MAPS/ CHARTS/CHKLIST/DEF/ATA	
8C SEATS/SEATBELTS	
8D EMERGENCY EQUIPMENT	
8E PERSONAL EQUIPMENT	